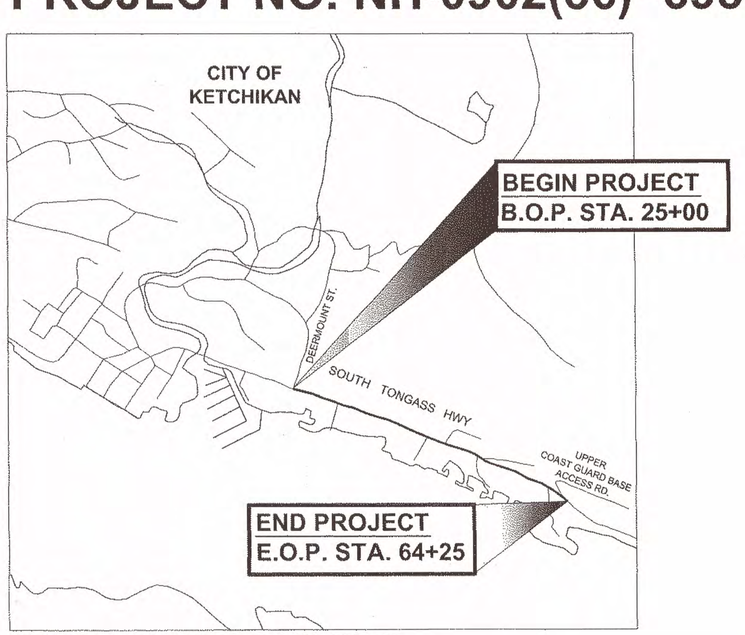
State of Alaska

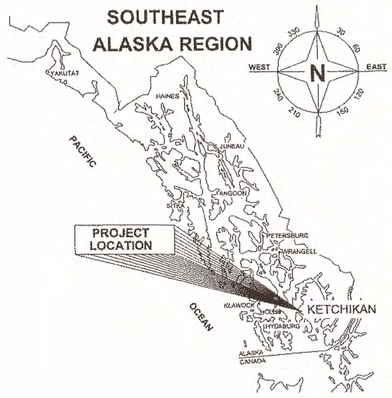
Department of Transportation and Public Facilities Southeast Region

KETCHIKAN, ALASKA
SOUTH TONGASS HIGHWAY

KTN-SOUTH TONGASS HIGHWAY PAVEMENT REHABILITATION
DEERMOUNT ST. (MP. 2.6) TO UPPER USCG BASE ENTRANCE (MP. 3.4)
PROJECT NO. NH-0902(36)~69571



VICINITY MAP
SOUTH TONGASS HIGHWAY



DESIGN DESIGNATION
SOUTH TONGASS HIGHWAY

A.D.T. 2011	=	5920
A.D.T. 2031	=	6540
D.H.V. (10.8%) 2031	=	690
% T	=	5.2%
V	=	30 M.P.H.
E.A.L.	=	600,000

PROJECT SUMMARY

LENGTH OF PROJECT	=	0.74 MILES
LENGTH OF RESURFACING	=	0.74 MILES
WIDTH OF RESURFACING	=	25 - 41 FT

THE FOLLOWING STANDARD DRAWINGS APPLY TO THIS PROJECT:

A-1	G-00.01	I-20.13	S-00.10	S-20.10	T-06.00
C-03.10	G-04.06S	I-21.01	S-01.00	S-23.00	T-20.02
C-04.12	G-10.01		S-05.01	S-30.03	T-21.02
C-05.10					T-23.00
D-23.01					

INDEX

SHEET NO.	DESCRIPTION
A1	TITLE SHEET
B1	TYPICAL SECTIONS
C1-C2	ESTIMATE OF QUANTITIES
D1	SIGN SUMMARY
F1-F8	PLAN VIEW
G1-G4	MISCELLANEOUS DETAILS
H1	EROSION & SEDIMENT CONTROL DETAILS
R1-R8	STRIPING PLANS
S1	TRAFFIC CONTROL PLANS

As-builts

Project Engineer: Jack Lee / Serard Wagenius

Contractor : SECON

Date : 8/26/11 - 6/13/12

PATH: C:\KTN\69571\ENGDOUG'S PLANSET\69571_A1_TITLE.DWG TAB:A1-TITLE SHEET
Tuesday, June 21, 2011 2:11:32 PM
PLOT: PSPACE OR MSPACE: 1=1(F)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA — KEITH D. KAPPSTON — CE-12904 — REGISTERED PROFESSIONAL ENGINEER

APPROVED: 6/23/11
REGIONAL PRE-CONSTRUCTION ENGINEER — DATE
CHUCK CORREA, P.E.

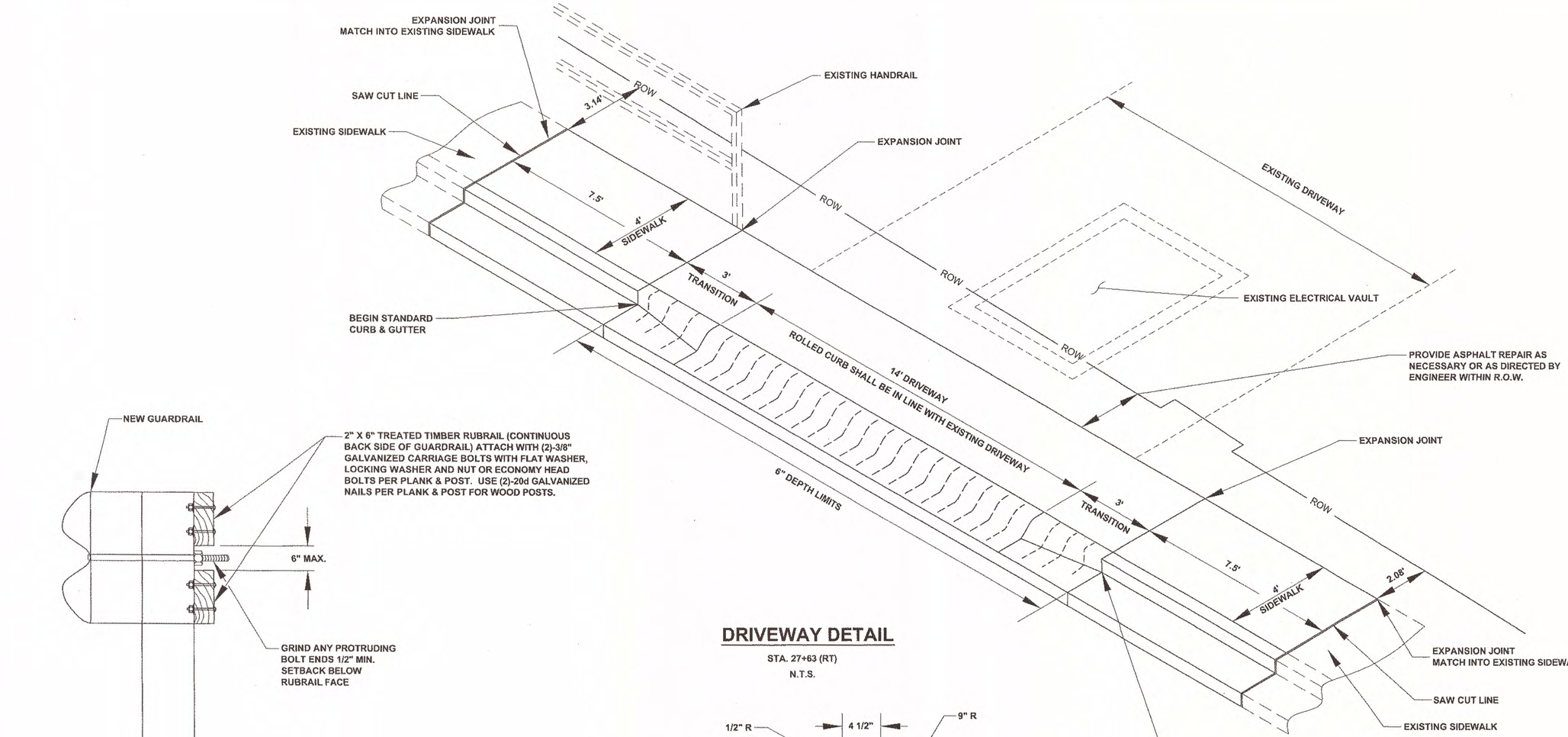
APPROVED: 7-7-11
DIRECTOR, SOUTHEAST REGION — DATE
ALBERT H. CLOUGH, C.P.G.

CERTIFIED TRUE & CORRECT AS-BUILT OF ACTUAL FIELD CONDITION:

CONSTRUCTION PROJECT MANAGER — DATE

STATE	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
ALASKA	NH-0902(36)~69571	2011	A1	27

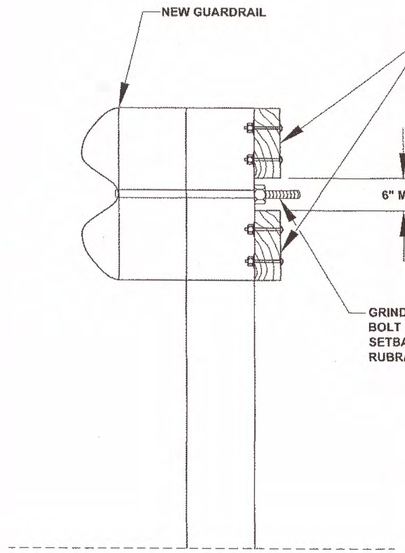
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE Date 6-14-12



DRIVEWAY DETAIL

STA. 27+63 (RT)

N.T.S.



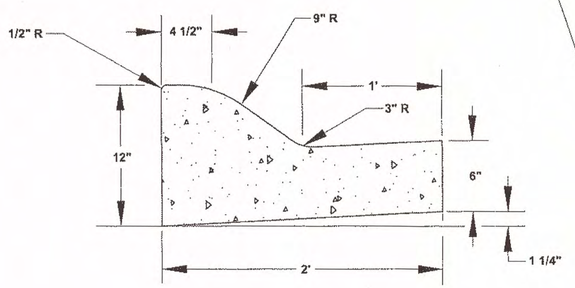
RUBRAIL DETAILS

N.T.S.

RUBRAIL NOTES:

1. TREATED TIMBER MAY BE ROUGH SAWN HEM-FIR OR LARCH, ACZA PRESERVATIVE OR EQUIVALENT TREATED 0.4 PCF RETENTION BY ASSAY IN ACCORDANCE WITH AWPA-C2 STANDARDS MINIMUM BOARD ALLOWABLE STRESS f_b= 1200 PSI.

2. 45° BEVEL LEADING AND TRAILING EXPOSED EDGES.



ROLLED CURB DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

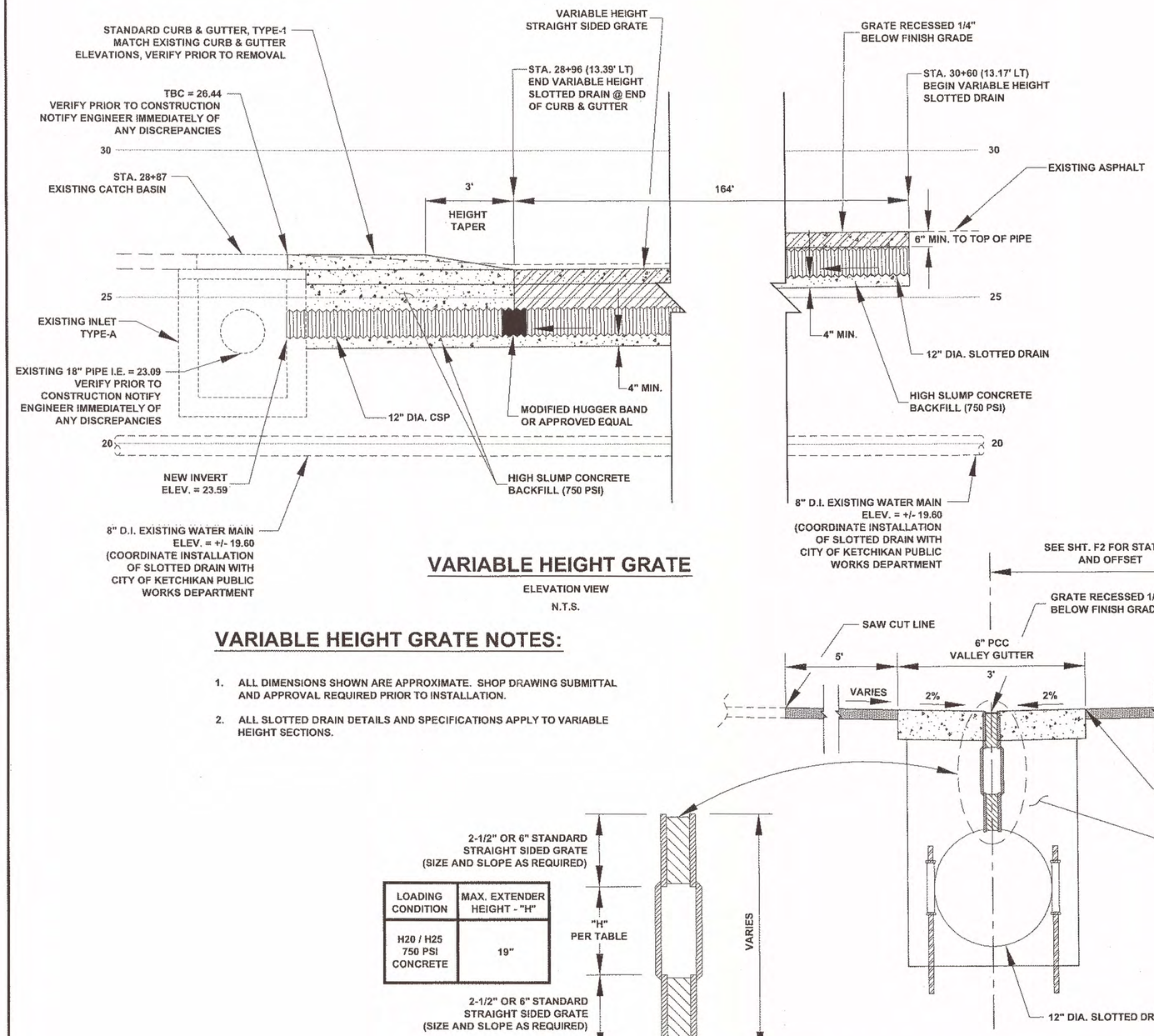
CHECKED BY: K. KARPSTEIN	STATE OF ALASKA DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES SOUTHEAST REGION
	KTN-SOUTH TONGASS HWY PAVEMENT REHABILITAION PROJECT #69571
DESIGNED BY: D. MULLINER	**MISC. DETAILS**
DRAWN BY: D. MULLINER	

STATE OF ALASKA 49th KEITH M KARPSTEIN CE-12904 REGISTERED PROFESSIONAL ENGINEER 6/23/11

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_G1-G4 DTLS.DWG
TAB: G4 Wednesday, June 22, 2011 1:54:16 PM MULLINER, DOUGLAS J (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	G4	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/4/12



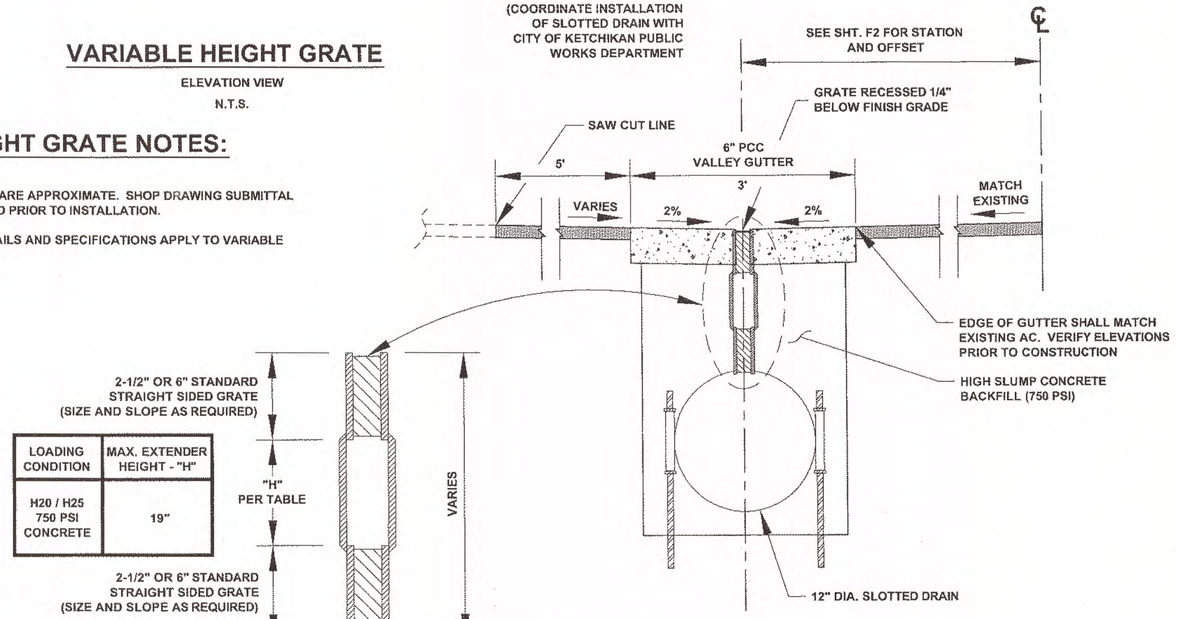
VARIABLE HEIGHT GRATE

ELEVATION VIEW

N.T.S.

VARIABLE HEIGHT GRATE NOTES:

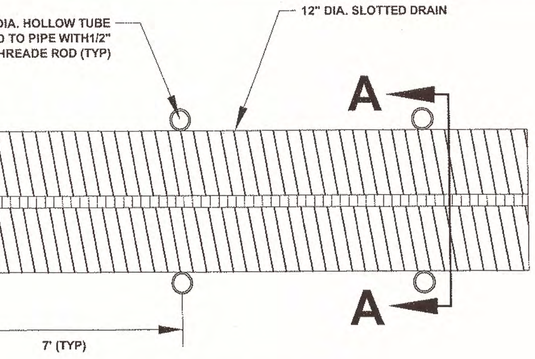
1. ALL DIMENSIONS SHOWN ARE APPROXIMATE. SHOP DRAWING SUBMITTAL AND APPROVAL REQUIRED PRIOR TO INSTALLATION.
2. ALL SLOTTED DRAIN DETAILS AND SPECIFICATIONS APPLY TO VARIABLE HEIGHT SECTIONS.



LOADING CONDITION	MAX. EXTENDER HEIGHT - "H"
H20 / H25 750 PSI CONCRETE	19"

SLOTTED DRAIN VALLEY GUTTER DETAIL

N.T.S.



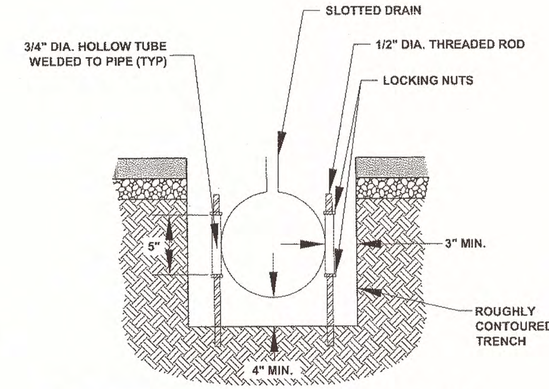
SLOTTED DRAIN LEVELING DEVICE

PLAN VIEW

N.T.S.

LEVELING DEVICE NOTES:

1. TYPICAL SPACING SHOWN ON PLAN VIEW. ADDITIONAL RODS MAY BE NECESSARY.
2. STAGE BACKFILLING MAY BE NEEDED TO PREVENT FLOATING
3. LEVELING DEVICE USED SHALL BE AS SHOWN, OR APPROVED EQUIVALENT.



SLOTTED DRAIN LEVELING DEVICE

SECTION A-A

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITAION
PROJECT #69571

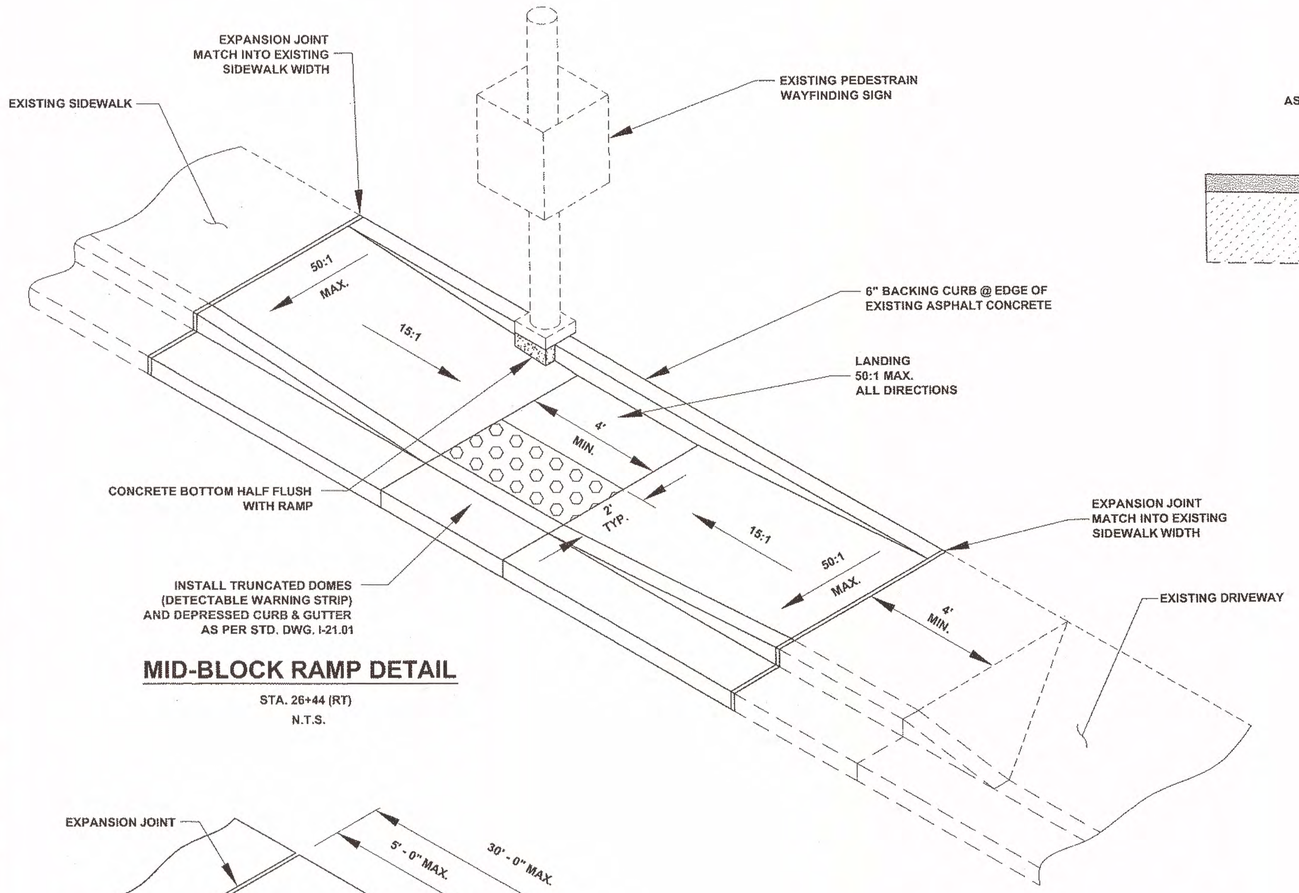
DESIGNED BY: D. MULLINER
DRAWN BY: D. MULLINER

MISC. DETAILS

PATH: O:\KTN\69571\EN\DOUG'S PLANSET\69571_G1-G4 DTLS.DWG
TAB: G3 Tuesday, June 21, 2011 2:16:33 PM MULLINER, DOUGLAS J (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	G3	27

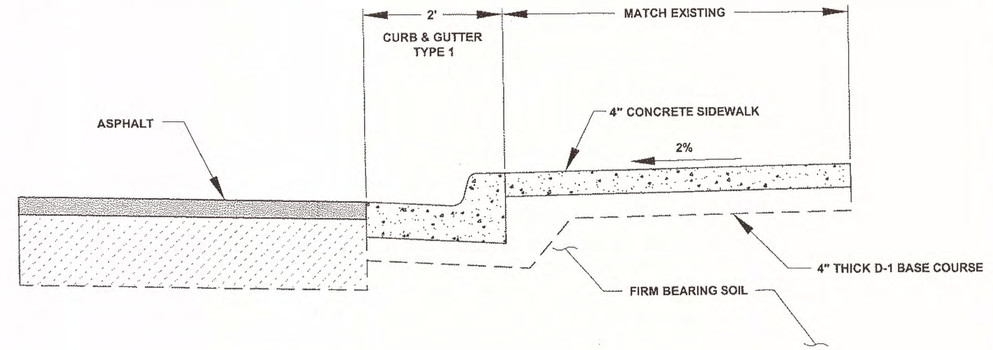
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/7/12



MID-BLOCK RAMP DETAIL

STA. 26+44 (RT)

N.T.S.

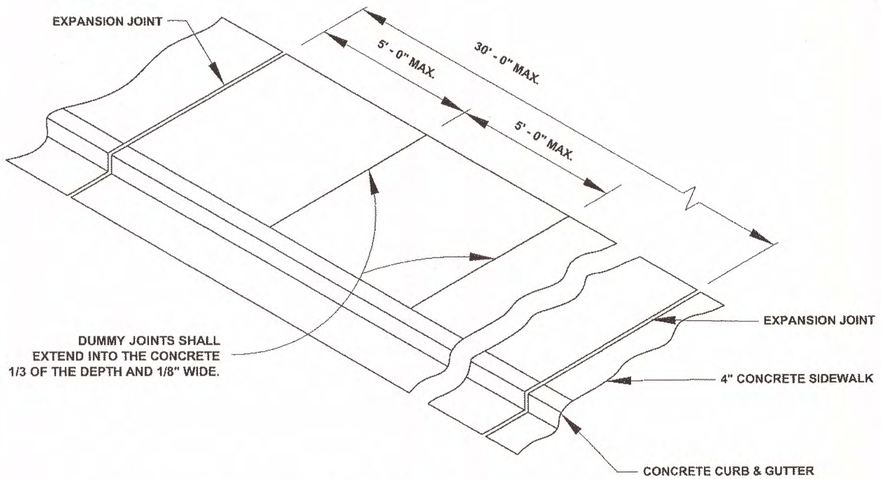


SIDEWALK DETAIL

N.T.S.

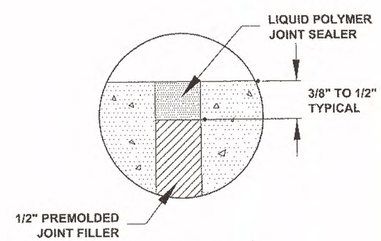
SIDEWALK, CURB & GUTTER NOTES

1. CONCRETE SIDEWALKS, CURB & GUTTER EXPANSION JOINTS SHALL BE PLACED IMMEDIATELY PRECEDING AND FOLLOWING ALL CURB AND SIDEWALK CUTS. THEREAFTER, THEY SHALL BE PLACED AT 30' MAXIMUM.
2. CONCRETE SIDEWALKS DUMMY JOINTS SHALL EXTEND INTO CONCRETE 1/3 THE DEPTH AND 1/8 WIDE AT 5' MAXIMUM INTERVALS BETWEEN EXPANSION JOINTS.
3. ALL JOINTS AND SEAMS SHALL BE EDGED.
4. STEEL TROWELING FINISH REQUIRED PRIOR TO BROOM FINISHING ON ALL SURFACES.
5. CURING COMPOUND SHALL BE APPLIED TO THE CONCRETE. APPLICATION SHALL CONFORM TO THE MANUFACTURER'S RECOMMENDATIONS.
6. CURB AND GUTTER CONSTRUCTION SHALL MAINTAIN EXISTING FLOW LINE.
7. EXPANSION JOINT REQUIRED BETWEEN SIDEWALK AND DRIVEWAY, AND BETWEEN SIDEWALK AND CURB.
8. ALL CONCRETE WITHIN THE CURB CUT LIMITS FOR DRIVEWAYS SHALL BE 6" THICK AND SHALL BE POURED ON A 4" D-1 BASE COURSE COMPACTED TO 95% OF ITS MAXIMUM DENSITY.



TYPICAL SIDEWALK, CURB & GUTTER DETAIL

N.T.S.



EXPANSION JOINT DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
KEITH B. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

PATH: Q:\KTN\69571\ENI\DOUG'S PLANSET\69571_G1-G4 DTLS.DWG

TAB: G2 Tuesday, June 21, 2011 2:16:25 PM MULLINER, DOUGLAS J (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

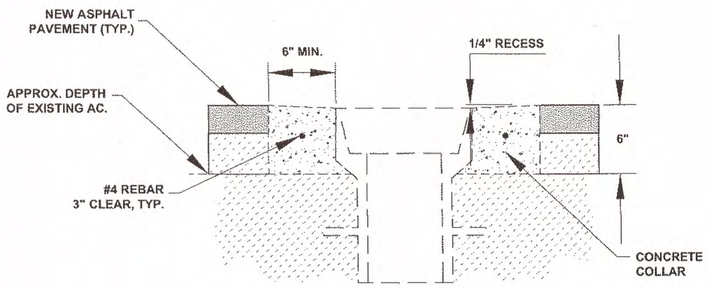
KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITAION
PROJECT #69571

MISC. DETAILS

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-0902(36)~69571	2011	G2	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6/4/12

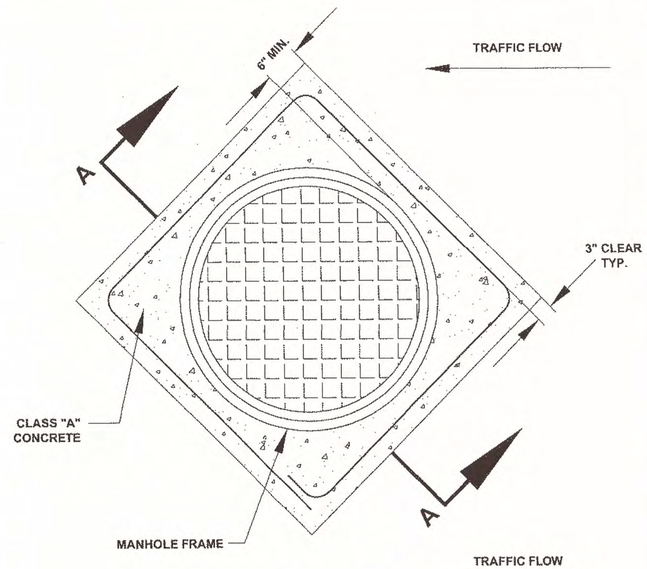


MONUMENT CASE AND VALVE BOX ADJUSTMENT DETAIL

N.T.S.

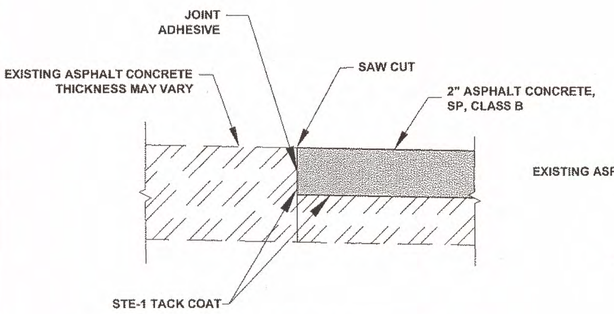
MANHOLE ADJUSTMENT NOTES:

1. ADJUSTING RINGS SHALL BE REPLACED IN ACCORDANCE TO EACH MANHOLE INVESTIGATION, CONDUCTED BY THE PROJECT ENGINEER.
2. MANHOLE CASTING SHALL BE ADJUSTED TO CONFORM WITH SLOPE AND GRADE OF PROPOSED PAVEMENT.
3. ADJUSTING RINGS SHALL BE PROPERLY SIZED FOR THE EXISTING CONE OR FLAT TOP OPENING, AND INSTALLED PER MANUFACTURER'S RECOMMENDATIONS.
4. INSTALLATION OF FRAME, COVER, AND ADJUSTMENT RINGS, ONTO THE EXISTING STRUCTURE SHALL BE WATER-TIGHT.
5. ADJUSTMENT RINGS SHALL BE LADTECH HDPE RINGS OR APPROVED EQUAL.



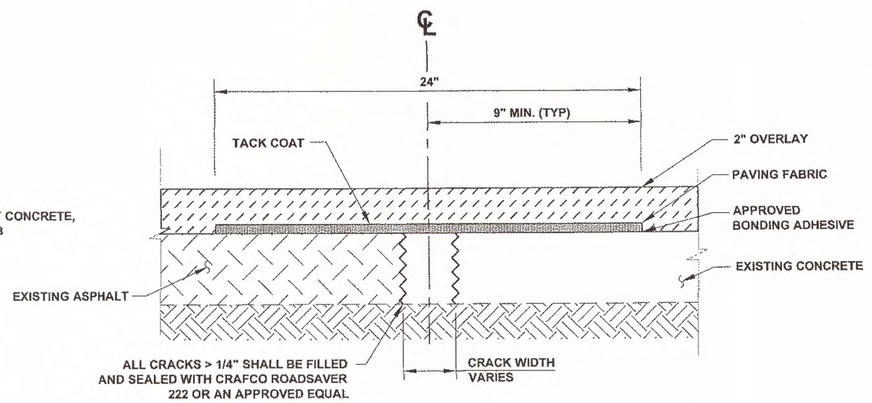
PLAN VIEW

N.T.S.



MATCH JOINT DETAIL

B.O.P. STA. 25+00 TO E.O.P. 64+25 & USCG BASE UPPER ENTRANCE
N.T.S.

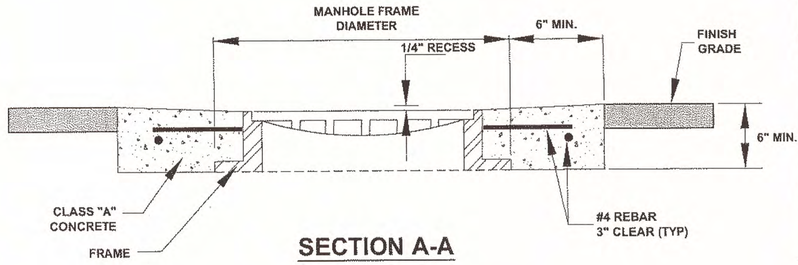


PAVING FABRIC/CRACK REPAIR

N.T.S.

NOTES:

1. REFER TO SECTION 632 IN THE SPECIFICATIONS FOR SURFACE PREPARATION.
2. APPLY APPROVED TACK COAT OVER MEMBRANE PRIOR TO PAVING. REFER TO SECTION 632 OF THE SPECIAL PROVISIONS.
3. CRACK REPAIR PAID FOR UNDER ITEM 632(1) PAVING FABRIC.
4. PAVING FABRIC SHALL BE USED AT ALL LOCATIONS WHERE ASPHALT MEETS CONCRETE OR AS DIRECTED BY ENGINEER.



SECTION A-A

CONCRETE COLLAR DETAIL

N.T.S.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN
DESIGNED BY: D. MULLINER
DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITAION
PROJECT #69571

MISC. DETAILS

PATH: Q:\KTN\69571\ENDOUG'S PLANSET\69571_G1-G4 DTLS.DWG
TAB: G1 Tuesday, June 21, 2011 2:16:16 PM MULLINER, DOUGLAS J (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	G1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/12

COAST GUARD BASE

BREEZE-WAY ROOF

MESSHALL & CLUB

UNMARRIED HOUSING USCG

SHED

OAST GUARD BASE

SIDEWALK

SIDEWALK

GUN ENPLACEM

R1-1

STOP

20

UPPER COAST GUARD BASE ACCESS

ROW

MATCH LINE STA. 60+90.00

61+00

62+00

SOUTH TONGASS HWY

63+00

N. 33-10-24 W. - 418.96'

64+00

65+00

66+00

PC: STA: 64+23.27

MATCH LINE STA. 66+25.00

BH-TH076

BUILDING

BUILDING

REPLACE GUARDRAIL & INSTALL RUBRAIL AS PER DETAIL SHT. G4

STA. 61+60 TO 63+40 SPOT REPAIR

STA. 63+45 INSTALL PARALLEL GUARDRAIL TERMINAL

E.O.P. STA. 64+25

0 40' 80'

SCALE IN FEET

CURVE DATA

R = 716.20'
Δ = 17 - 10 - 01
L = 214.59'
T = 108.10'

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

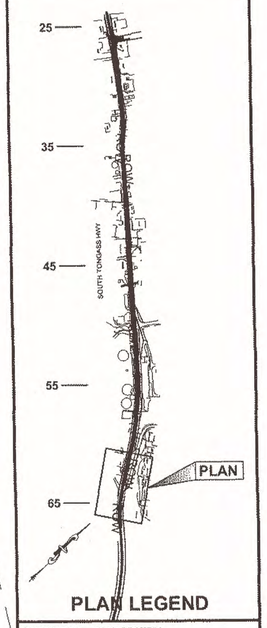
MULLINER, DOUGLAS J (DOT)
TAB: F8 Tuesday, June 21, 2011 2:15:55 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

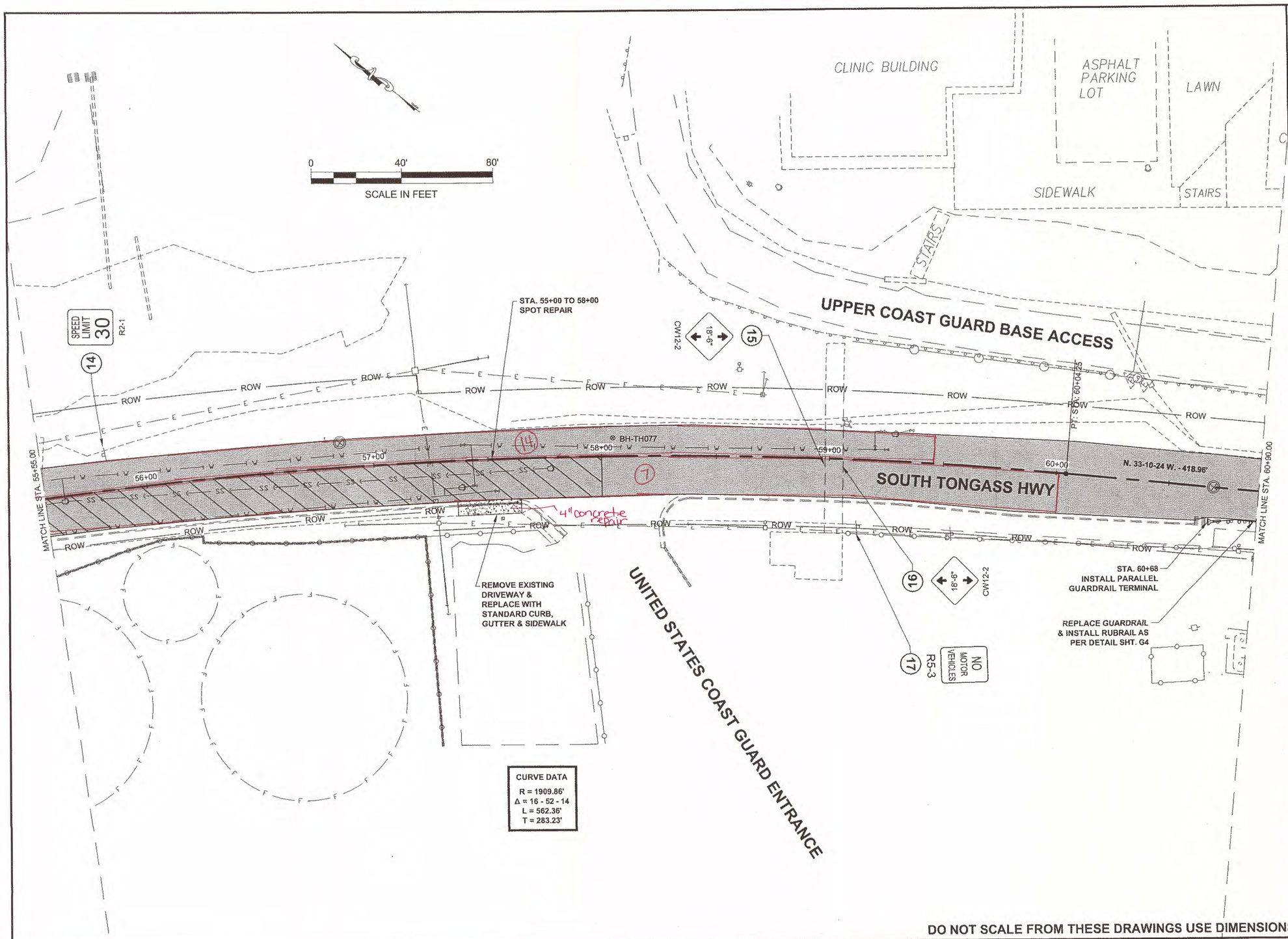
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

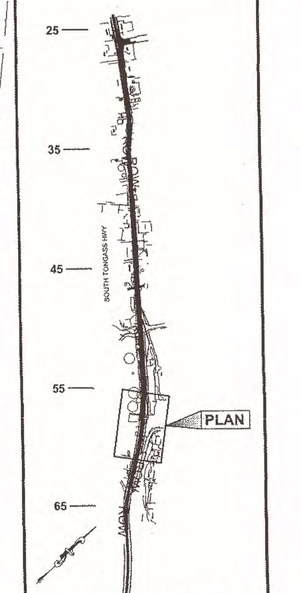
KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F8	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: _____ Date: 6/4/12





PLAN LEGEND

PATH: O:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

MULLINER, DOUGLAS J (DOT)

TAB: F7 Tuesday, June 21, 2011 2:15:46 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA 49th KEITH D. KARPSTEIN CE-12904 REGISTERED PROFESSIONAL ENGINEER 6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

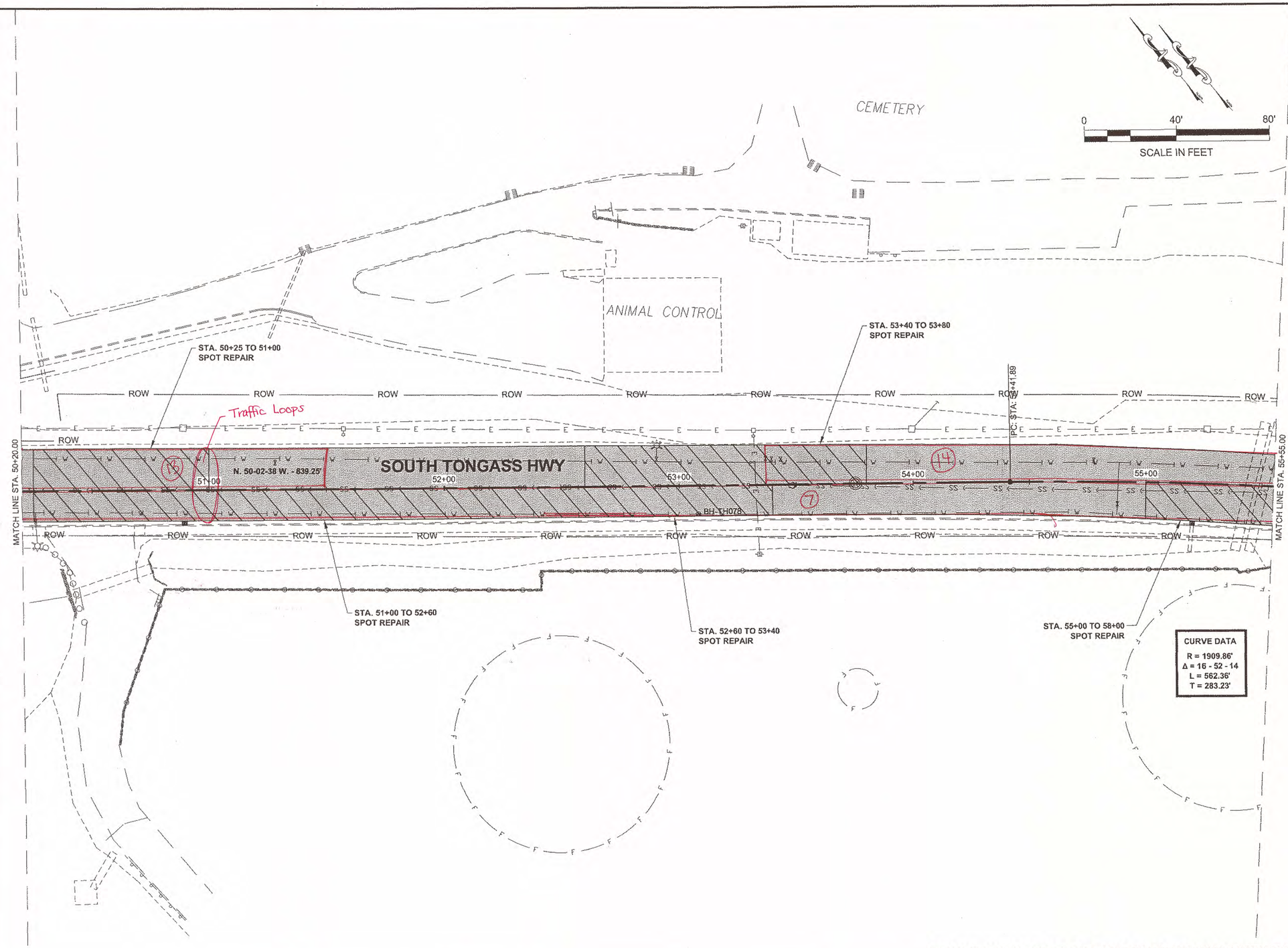
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F7	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/7/12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

MULLINER, DOUGLAS J (DOT)

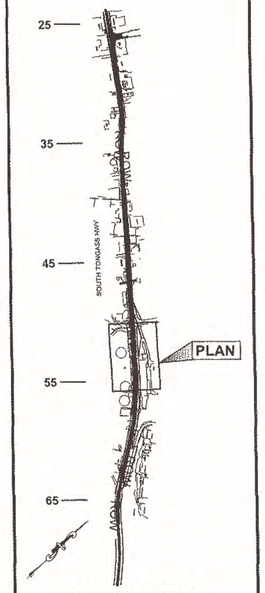
TAB: F6 Tuesday, June 21, 2011 2:15:37 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F6	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 7-14-12

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

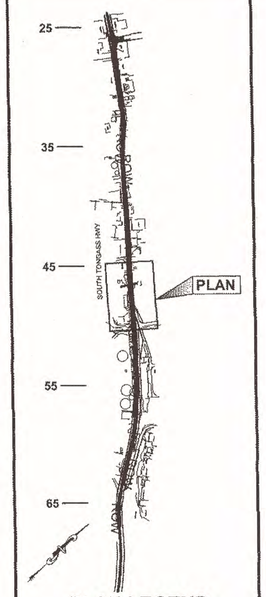
MULLINER, DOUGLAS J (DOT)
TAB: F5 Tuesday, June 21, 2011 2:44:01 PM

ADDENDUM NUMBER

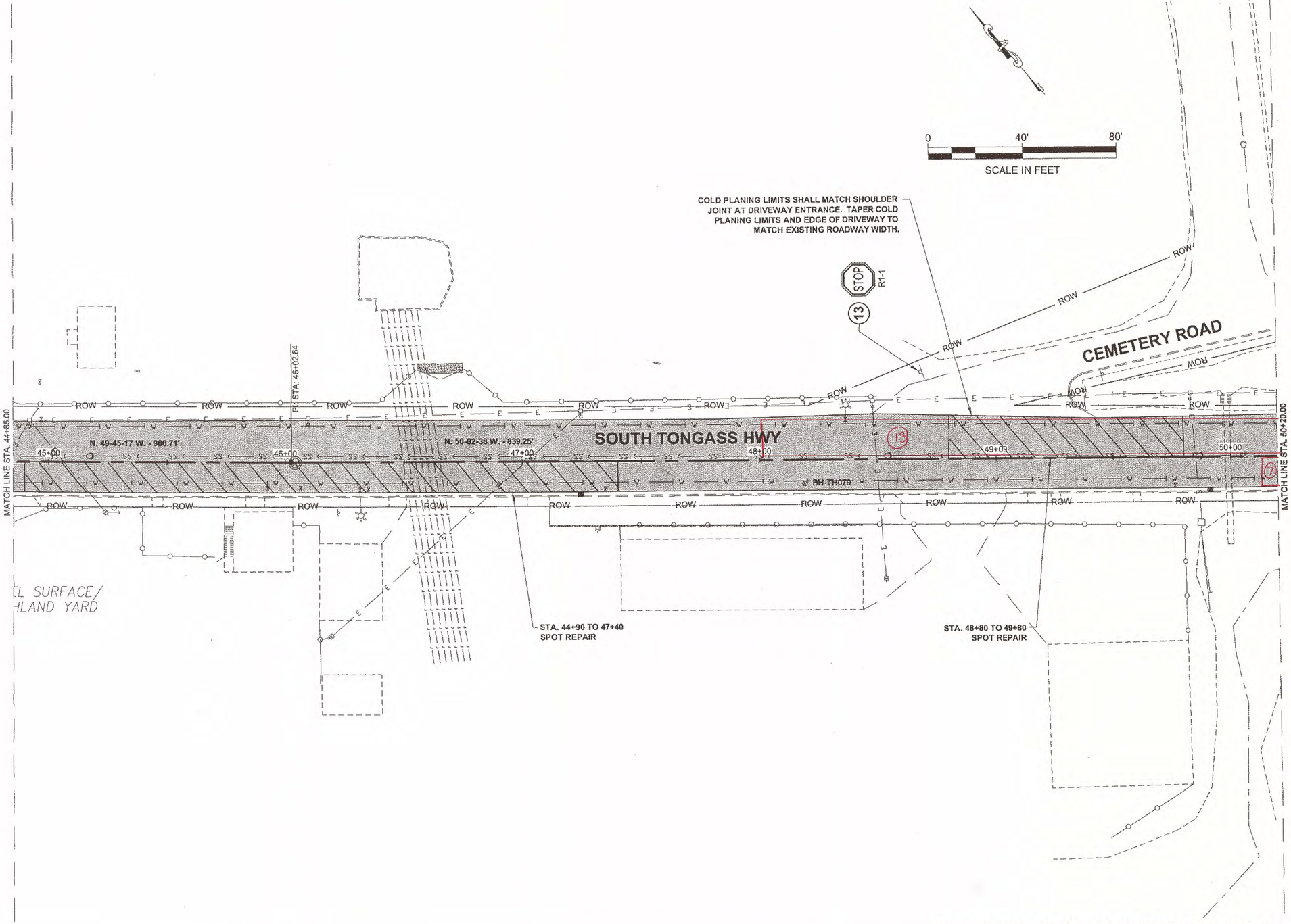
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F5	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/14/12

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

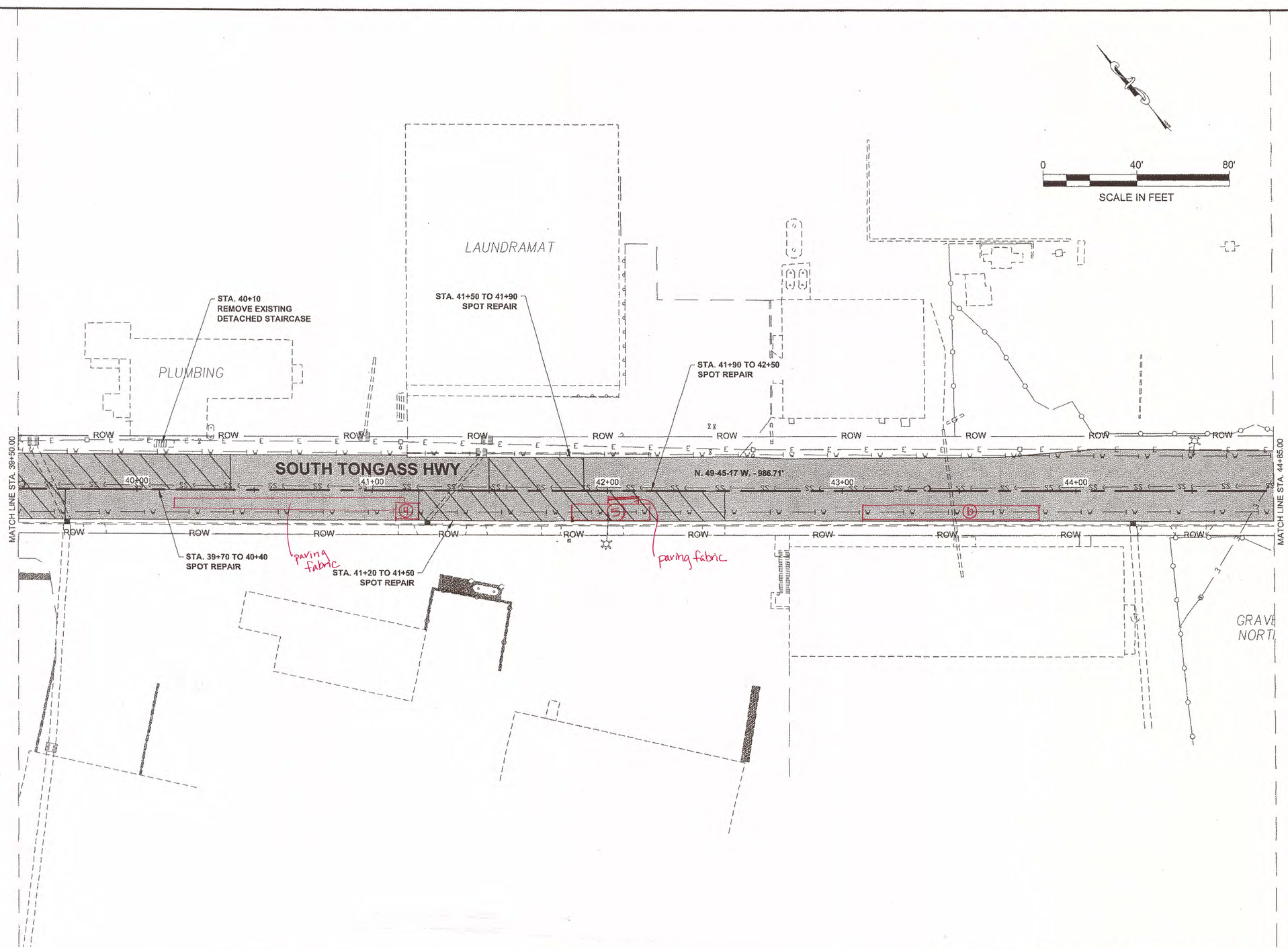
MULLINER, DOUGLAS J (DOT)
TAB: F4 Thursday, June 23, 2011 4:18:42 PM

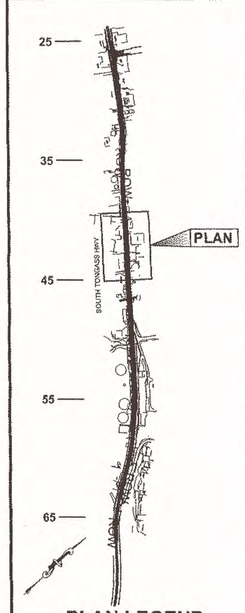
ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION





PLAN LEGEND

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
4911
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F4	27

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/4/12

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

MULLINER, DOUGLAS J (DOT)
TAB: F3 Tuesday, June 21, 2011 2:15:06 PM

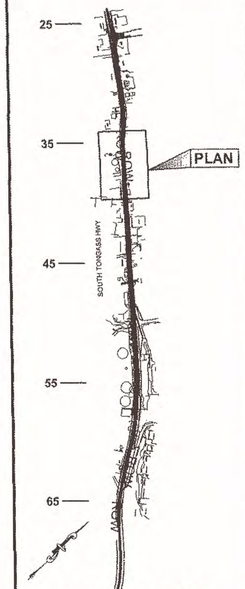
ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



SCALE IN FEET



PLAN LEGEND

CURVE DATA
R = 2291.83'
Δ = 5 - 58 - 01
L = 238.67'
T = 119.45'

STA. 31+76 TO 36+15
SPOT REPAIR

STA. 37+50 TO 38+90
SPOT REPAIR

STA. 38+90 TO 39+70
SPOT REPAIR

TOTEM TAKEOUT

MATCH LINE STA. 34+15.00

MATCH LINE STA. 39+50.00

SOUTH TONGASS HWY

N. 49-45-17 W. - 986.71'

36+00 36+00 37+00 38+00 39+00

ROW

SS

W

E

F

C

SPEED LIMIT 30
R2-1

ANDRES OIL OFFICE

STA. 36+15 TO 37+50
SPOT REPAIR

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F3	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/4/12

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

MULLINER, DOUGLAS J (DOT)
TAB: F2 Tuesday, June 21, 2011 2:14:55 PM

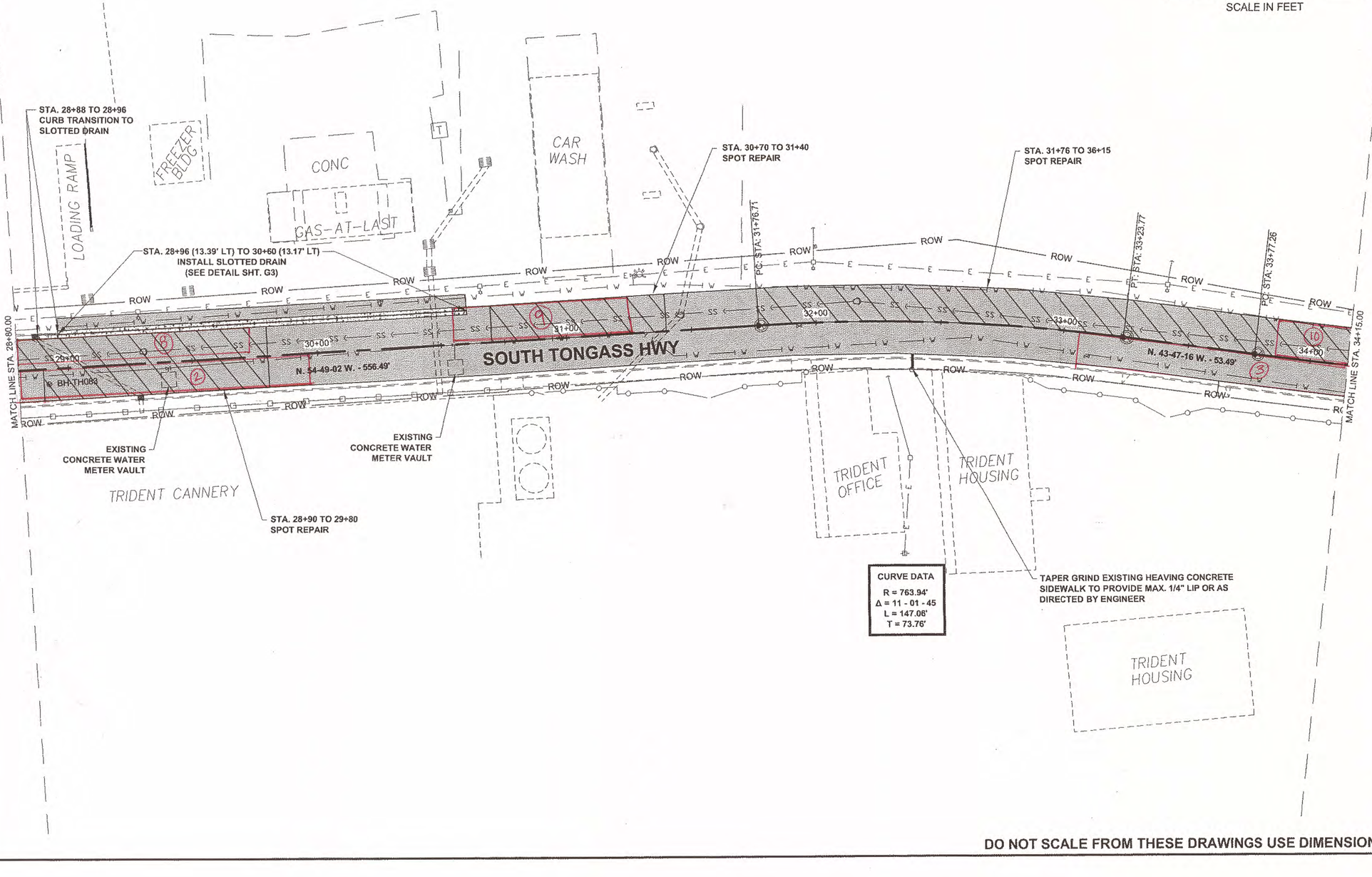
ADDENDUM NUMBER
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION

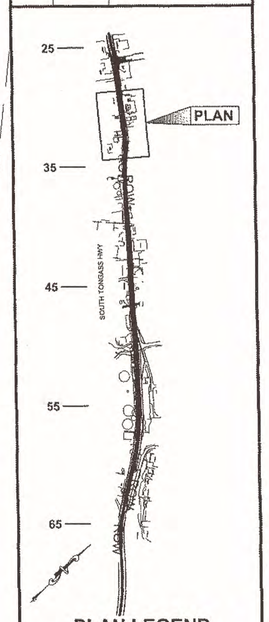
0 40' 80'

SCALE IN FEET



CURVE DATA
R = 763.94'
Δ = 11 - 01 - 45
L = 147.06'
T = 73.76'

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS



PLAN LEGEND

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
49th
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F2	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 7/4/12

PATH: Q:\KTN\69571EN\DOUG'S PLANSET\69571_F1_F8 PLANS.DWG

MULLINER, DOUGLAS J (DOT)

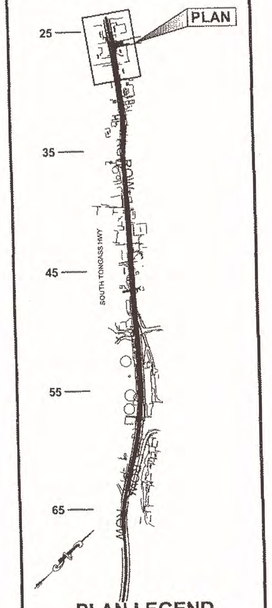
TAB: F1 Tuesday, June 21, 2011 2:14:47 PM

ADDENDUM NUMBER

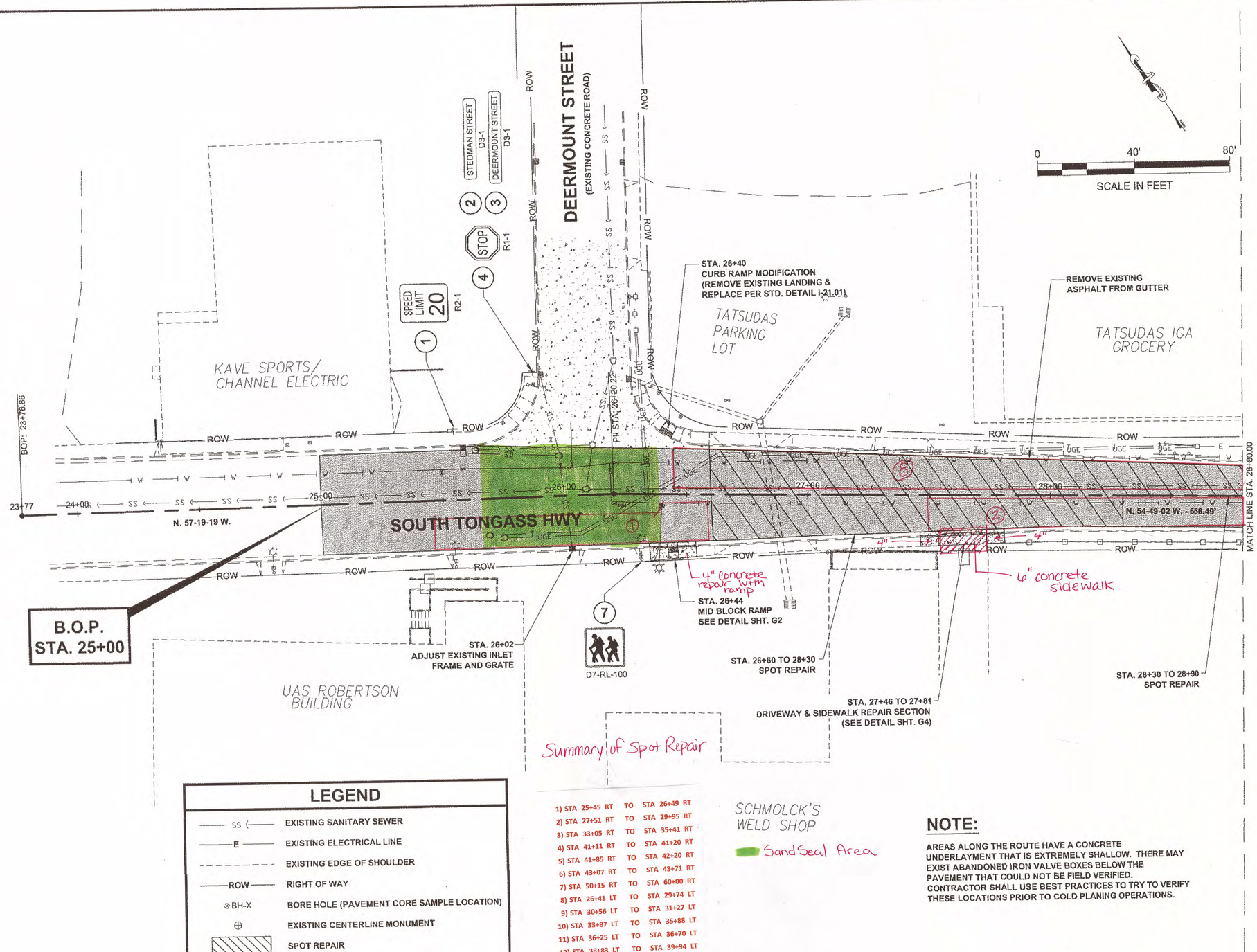
ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND



LEGEND

SS	EXISTING SANITARY SEWER
E	EXISTING ELECTRICAL LINE
	EXISTING EDGE OF SHOULDER
ROW	RIGHT OF WAY
BH-X	BORE HOLE (PAVEMENT CORE SAMPLE LOCATION)
	EXISTING CENTERLINE MONUMENT
	SPOT REPAIR

1) STA 25+45 RT TO STA 26+49 RT
2) STA 27+51 RT TO STA 29+95 RT
3) STA 33+05 RT TO STA 35+41 RT
4) STA 41+11 RT TO STA 41+20 RT
5) STA 41+85 RT TO STA 42+20 RT
6) STA 43+07 RT TO STA 43+71 RT
7) STA 50+15 RT TO STA 60+00 RT
8) STA 26+41 LT TO STA 29+74 LT
9) STA 30+56 LT TO STA 31+27 LT
10) STA 33+87 LT TO STA 35+88 LT
11) STA 36+25 LT TO STA 36+70 LT
12) STA 38+83 LT TO STA 39+94 LT
13) STA 48+00 LT TO STA 51+51 LT
14) STA 53+39 LT TO STA 59+44 LT

NOTE:

AREAS ALONG THE ROUTE HAVE A CONCRETE UNDERLAYMENT THAT IS EXTREMELY SHALLOW. THERE MAY EXIST ABANDONED IRON VALVE BOXES BELOW THE PAVEMENT THAT COULD NOT BE FIELD VERIFIED. CONTRACTOR SHALL USE BEST PRACTICES TO TRY TO VERIFY THESE LOCATIONS PRIOR TO COLD PLANING OPERATIONS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

PLAN VIEW

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
F1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge the project as constructed.

PE _____ Date 6/4/12

615 (1) STANDARD SIGN SUMMARY

SIGN #	LEGEND	STA	OFFSET	ASDS CODE	WIDTH (IN)	HEIGHT (IN)	AREA (SQ FT)	POST	EMBEDMENT DEPTH	SIGN FACING	COMMENTS
1	SPEED LIMIT 20	25+56	LT	R2-1	30	36	7.50	2.5 PST	4'-6"	WB	
2	STEDMAN STREET	25+89	LT	D3-1	24	6	1.00	2.5 PST	4'-6"	SB	MOUNT ABOVE SIGN #3
3	DEERMOUNT STREET	25+89	LT	D3-1	24	6	1.00	2.5 PST	4'-6"	SB	MOUNT ABOVE SIGN #4
4	STOP	25+89	LT	R1-1	30	30	6.25	2.5 PST	4'-6"	SB	
5	PED XING	26+31	RT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
6	DIRECTIONAL ARROW (SYMBOL)	26+31	RT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
7	HIKING	26+31	RT	D7-RL-100	24	24	4.00	2.5 PST	4'-6"	EB	MOUNT ON LIGHT POLE BELOW SIGN #6
8	DIRECTIONAL ARROW (SYMBOL)	26+31	RT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
9	PED XING	26+51	LT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
10	DIRECTIONAL ARROW (SYMBOL)	26+51	LT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
11	SPEED LIMIT 30	35+17	RT	R2-1	30	36	7.50	2.5 PST	4'-6"	EB	
12	STOP FOR PEDESTRIANS AT CROSSWALKS REQUIRED	37+27	LT	–	–	–	–	–	–	WB	EXISTING SIGN TO REMAIN
13	STOP	48+70	LT	R1-1	30	30	6.25	2.5 PST	4'-6"	SB	
14	SPEED LIMIT 30	55+83	LT	R2-1	30	36	7.50	2.5 PST	4'-6"	WB	
15	18'-6" (CLEARANCE)	58+98	–	CW12-2	36	36	9.00	2.5 PST	4'-6"	EB	SIGN IS MOUNTED ON HANDRAIL OF PEDESTRIAN OVERPASS
16	18'-6" (CLEARANCE)	59+06	–	CW12-2	36	36	9.00	2.5 PST	4'-6"	WB	SIGN IS MOUNTED ON HANDRAIL OF PEDESTRIAN OVERPASS
17	NO MOTOR VEHICLES	59+14	RT	R5-3	24	24	4.00	2.5 PST	4'-6"	EB	
18	LEASH LAW AREA KGB	59+14	RT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
19	JOSEPH C. WILLIAMS, SR. (KEE-NAX) COASTAL TRAIL	59+56	RT	–	–	–	–	–	–	EB	EXISTING SIGN TO REMAIN
20	STOP	63+28	LT	R1-1	30	30	6.25	2.5 PST	4'-6"	SB	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
49th
David B. Epstein
CE-6866
REGISTERED PROFESSIONAL ENGINEER
10-23-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_D1 SUMS.DWG

TAB: D1 Tuesday, June 21, 2011 2:14:23 PM MULLINER, DOUGLAS J (DOT)

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HIGHWAY
PAVEMENT REHABILITATION
PROJECT #69571

SIGN SUMMARIES

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	D1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/4/12

202(1) REMOVAL OF STRUCTURES AND OBSTRUCTIONS

STATION	OFFSET	REMARKS
44+10	LT	BUILDING NO. 929 - REMOVE EXISTING DETACHED STAIRCASE

202(3) REMOVAL OF SIDEWALK

OFFSET	STATION		AREA (SY)	REMARKS
	FROM	TO		
RT	26+34	26+54	10	NEW MID-BLOCK RAMP
LT	26+38	26+44	3	NEW ADA DETECTABLE WARNING STRIP INSTALLATION
RT	27+45	27+81	15	
RT	57+35	57+64	13	

202(9) REMOVAL OF CURB & GUTTER

OFFSET	STATION		LENGTH (LF)	REMARKS
	FROM	TO		
RT	26+34	26+54	20	NEW MID-BLOCK RAMP
RT	27+45	27+81	36	
LT	28+88	28+98	10	
RT	57+35	57+64	29	

604 (4) ADJUSTMENT OF EXISTING MANHOLES

STATION	OFFSET	REMARKS
25+59	20' LT	SQUARE TYPE
25+64	20' LT	
25+69	15' RT	ELECTRICAL MANHOLE
25+75	16' RT	ELECTRICAL MANHOLE
25+99	17' LT	
26+09	3' LT	
26+12	20' LT	HALF OF MANHOLE IN CONCRETE STREET SECTION
29+28	5' LT	
29+40	7' RT	EXISTING WATER METER VAULT
30+55	9' RT	EXISTING WATER METER VAULT
31+46	6' LT	
32+17	8' LT	
35+51	3' LT	
39+52	2' LT	
43+36	1' LT	
45+18	3' LT	
48+54	2' LT	
49+87	1' LT	
53+48	1' RT	
55+64	2' RT	
57+38	12' RT	ELECTRICAL MANHOLE
57+78	5' RT	
58+70	2' RT	

604(8) ADJUST EXISTING INLET FRAME & GRATE

STATION	OFFSET	REMARKS
26+02	RT	

642 (9) REFERENCE EXISTING MONUMENT

STATION	TYPE	REMARKS
31+77	PC	CL MONUMENT
33+24	PT	CL MONUMENT
33+77	PC	CL MONUMENT
36+16	PT	CL MONUMENT
46+03	PI	CL MONUMENT
53+75		CL MONUMENT
60+70		CL MONUMENT
62+52		CL MONUMENT

606 (1) W-BEAM GUARDRAIL

FROM STATION	TO STATION	OFFSET	LENGTH	REMARKS
61+18	62+95	RT	177	

606 (6) GUARDRAIL REMOVAL AND DISPOSAL

FROM STATION	TO STATION	OFFSET	LENGTH	REMARKS
60+68	63+45	RT	277	

606 (13) PARALLEL GUARDRAIL TERMINAL

STATION	OFFSET	REMARKS
60+68	RT	
63+45	RT	

608(1A) CONCRETE SIDEWALK (4 INCH)

STATION	STATION	OFFSET	AREA (SY)	REMARKS
FROM	TO			
26+38	26+44	LT	3	NEW ADA DETECTABLE WARNING STRIP INSTALLATION
27+46	27+53	RT	3	
27+73	27+81	RT	3	
57+35	57+64	RT	13	

608(1B) CONCRETE SIDEWALK (6 INCH)

(CL) STATION	OFFSET	DW WIDTH (FT)	AREA (SY)	REMARKS
27+63	RT	20	8	

608(6) CURB RAMP

STATION	OFFSET	REMARKS
26+40	LT	NEW ADA DETECTABLE WARNING STRIP INSTALLATION
26+44	RT	MID BLOCK RAMP

609(2) CURB & GUTTER

STATION		OFFSET	LENGTH (LF)	REMARKS
FROM	TO			
27+45	27+53	RT	8	
27+53	27+73	RT	20	NEW ROLL CURB AND CUTTER
27+73	27+81	RT	8	
28+88	28+98	LT	10	TRANSITION FROM VALLEY GUTTER TO STANDARD CURB & GUTTER
57+35	57+64	RT	29	

609(7) VALLEY GUTTER

STATION		OFFSET	LENGTH (LF)	REMARKS
FROM	TO			
28+96	30+60	LT	164	VALLEY GUTTER FOR SLOTTED DRAIN PIPE

642 (11) ADJUST EXISTING MONUMENT CASE

STATION	TYPE	REMARKS
31+77	PC	CL MONUMENT
33+24	PT	CL MONUMENT
33+77	PC	CL MONUMENT
36+16	PT	CL MONUMENT
46+03	PI	CL MONUMENT
53+75		CL MONUMENT
60+70		CL MONUMENT
62+52		CL MONUMENT

627 (10) ADJUSTMENT OF VALVE BOX

STATION	OFFSET	REMARKS
25+50	12' LT	
25+59	13' LT	
25+99	12' LT	
26+02	11' LT	
26+04	13' LT	
26+19	10' LT	
26+20	4' RT	
26+21	13' LT	
26+23	5' RT	
26+24	5' RT	
26+40	5' RT	
27+87	4' RT	
29+40	3' RT	
30+26	19' LT	
30+55	1' RT	
31+93	1' RT	
33+10	10' RT	
33+64	11' RT	
38+75	12' RT	
41+85	12' RT	
42+00	11' RT	
43+16	12.5' RT	HALF IN GUTTER / HALF IN ROAD
43+41	12.5' RT	HALF IN GUTTER / HALF IN ROAD
44+51	16' LT	
44+97	18' LT	
45+45	11' RT	
45+92	11' RT	
46+06	11' RT	
46+31	12' RT	
46+35	11' RT	
47+34	12' RT	
48+36	17' LT	
49+76	12' RT	
50+25	12' RT	
51+28	11' LT	
52+91	11' LT	
53+31	10' LT	
53+37	11' LT	
53+39	11' LT	
53+43	11' LT	
54+77	9' LT	
54+88	9' RT	
57+40	7' LT	
57+44	11' RT	
57+54	14' RT	

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

STATE OF ALASKA 49th KEITH D. KARPSTEIN CE-12904 REGISTERED PROFESSIONAL ENGINEER

KTN-SOUTH TONGASS HIGHWAY
PAVEMENT REHABILITATION
PROJECT #69571

6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

ESTIMATES OF QUANTITIES

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_C1-C2 EST.DWG

TAB: C2 Thursday, June 23, 2011 4:55:35 PM MULLINER, DOUGLAS J (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION				
			NH-0902(36)~69571	2011	C2	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6/4/12

ESTIMATE OF QUANTITIES

ITEM NO.	ITEM DESCRIPTION	PAY UNIT	QUANTITY
202 (1)	REMOVAL OF STRUCTURES AND OBSTRUCTIONS	LUMP SUM	ALL REQUIRED
202 (2)	REMOVAL OF PAVEMENT	SQUARE YARD	~~180~~ 169.68
202 (3)	REMOVAL OF SIDEWALK	SQUARE YARD	~~41~~ 44.08
202 (9)	REMOVAL OF CURB AND GUTTER	LINEAR FOOT	~~95~~ 98.45
301 (1)	AGGREGATE BASE COURSE, GRADING D1	TON	~~11~~ 14.43
401 (1)	ASPHALT CONCRETE, SP, CLASS B	TON	~~2820~~ 2293.93
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	TON	~~169~~ 135.28
401 (6)	ASPHALT PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
402 (1)	STE-1 ASPHALT FOR TACK COAT	TON	~~12~~ 5.09
408 (1)	PAVEMENT COLD PLANING, 2 INCH DEPTH	SQUARE YARD	~~12730~~ 13589.50
408 (2)	PAVEMENT COLD PLANING, SPOT REPAIR AREAS	SQUARE YARD	~~5330~~ 4,975.41
603 (1)-12	12 INCH CSP	LINEAR FOOT	10
603 (22)-12	SLOTTED DRAIN, 12 INCH DIAMETER	LINEAR FOOT	~~184~~ 162.58
604 (4)	ADJUST EXISTING MANHOLE	EACH	~~23~~ 18
604 (8)	INLET FRAME AND GRATE ADJUSTMENT	EACH	1
606 (1)	W-BEAM GUARDRAIL	LINEAR FOOT	~~177~~ 153.80
606 (6)	REMOVING AND DISPOSING OF GUARDRAIL	LINEAR FOOT	277
606 (13)	PARALLEL GUARDRAIL TERMINAL	EACH	2
608 (1a)	CONCRETE SIDEWALK, 4 INCHES THICK	SQUARE YARD	~~22~~ 27.47
608 (1b)	CONCRETE SIDEWALK, 6 INCHES THICK	SQUARE YARD	~~8~~ 15.12
608 (6)	CURB RAMP	EACH	2
609 (2)	CURB AND GUTTER, TYPE 1	LINEAR FOOT	~~78~~ 101.90
609 (7)	VALLEY GUTTER	LINEAR FOOT	~~164~~ 163.10
615 (1)	STANDARD SIGN	SQUARE FOOT	70
627 (10)	ADJUSTMENT OF VALVE BOX	EACH	~~46~~ 40
632 (1)	PAVING FABRIC	SQUARE YARD	~~50~~ 37.66
640 (1)	MOBILIZATION AND DEMOBILIZATION	LUMP SUM	ALL REQUIRED
640 (4)	WORKER MEALS AND LODGING OR PER DIEM	LUMP SUM	ALL REQUIRED
641 (1)	EROSION, SEDIMENT AND POLLUTION CONTROL ADMINISTRATION	LUMP SUM	ALL REQUIRED
641 (3)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL	LUMP SUM	ALL REQUIRED
641 (4)	TEMPORARY EROSION, SEDIMENT AND POLLUTION CONTROL ADDITIVES	CONTINGENT SUM	ALL REQUIRED
641 (5)	EROSION, SEDIMENT AND POLLUTION CONTROL PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
641 (6)	WITHHOLDING	CONTINGENT SUM	ALL REQUIRED
642 (1)	CONSTRUCTION SURVEYING	LUMP SUM	ALL REQUIRED
642 (9)	REFERENCE EXISTING MONUMENT	EACH	~~8~~ 4
642 (11)	ADJUST EXISTING MONUMENT CASE	EACH	~~8~~ 4
643 (2)	TRAFFIC MAINTENANCE	LUMP SUM	ALL REQUIRED
643 (3)	PERMANENT CONSTRUCTION SIGNS	LUMP SUM	ALL REQUIRED
643 (15)	FLAGGING	CONTINGENT SUM	ALL REQUIRED
643 (23)	TRAFFIC PRICE ADJUSTMENT	CONTINGENT SUM	ALL REQUIRED
643 (25)	TRAFFIC CONTROL	CONTINGENT SUM	ALL REQUIRED
644 (6)	VEHICLES	LUMP SUM	ALL REQUIRED
670 (8)	RECESSED PAVEMENT MARKER	EACH	~~108~~ 96
670 (13)	INLAID METHYL METHACRYLATE PAVEMENT MARKINGS	LUMP SUM	ALL REQUIRED

Change Orders

660(1a)	Traffic Count System Repair (C.O 1)	Lump Sum	All Required
401(1a)	Asphalt Concrete, Type II, Class B (C.O 2)	TON	56.35
401(2a)	Asphalt Cement, Grade PG 58-28 (C.O #2)	Ton	3.49
643(14)	Interim Pavement Markings (Paint) (C.O 3)	Lump Sum	All Required
303(3)	Ditch and Shoulder Reconditioning (C.O 4)	Lump Sum	All Required
402(1)	STE-1 Asphalt for Tack Coat Price Reduction	Lump Sum	All Required

BASIS OF ESTIMATE

ITEM NO.	ITEM	ESTIMATING FACTOR
301 (1)	AGGREGATE BASE COURSE, GRADING D-1	1.96 TON/CY
401 (1)	ASPHALT CONCRETE, SP, TYPE B	160 LBS/CF
401 (2)	ASPHALT CEMENT, GRADE PG 64-28	6.0% OF ITEM 401(1)
402 (1)	STE-1 ASPHALT FOR TACK COAT	0.1 GAL/S.Y. (243 GAL/TON)

UTILITY CONTACTS

DEPARTMENT	PERSONNEL	PHONE NO.
KETCHIKAN DIRECTOR OF PUBLIC WORKS	CLIFTON J. ALLEN, P.E.	(907) 228-4736
KETCHIKAN PUBLIC UTILITIES WATER	JOHN KLEINEGGER	(907) 228-5499
KETCHIKAN SUPERINTENDENT WASTE WATER DIVISION	CHALRLES A. MACKEY	(907) 225-8750
KETCHIKAN PUBLIC UTILITIES POWER	MARK ADAMS	(907) 225-5505
KETCHIKAN PUBLIC UTILITIES TELECOMMUNICATIONS	LESLIE BREWER	(907) 228-5436
GCI	BUZZ HASSON	(907) 225-2191

EXISTING ASPHALT THICKNESS

TEST HOLE #	STATION	OFFSET	ASPHALT THICKNESS	REMARKS
TH-083	28+92	6' RT	0.5'	0.5' - 1.0' CONCRETE
TH-081	38+08	10' RT	0.5'	0.5' - 1.0' CONCRETE
TH-079	48+19	10' RT	0.5'	0.5' - 2.0' MEDIUM DENSE TO LOOSE, SLIGHTLY ORGANIC SILTY SAND (SM)
TH-078	53+08	12' RT	0.4'	0.4' - 0.8' ATB
TH-077	58+05	8' LT	0.6'	0.6' - 5.5' MEDIUM DENSE, WELL GRADED, SLIGHTLY ORGANIC GRAVEL WITH SILT AND SAND (GW-GM)
TH-076	64+48	7' RT	0.8'	0.8' - 1.5' DENSE, POORLY GRADED SAND WITH GRAVEL (SP)
TH-075	67+80	8' LT	0.6'	0.6' - 1.5' DENSE, POORLY GRADED SAND WITH GRAVEL (SP)

NOTE: SOME AREAS MAY CONTAIN CONCRETE UNDERNEATH THE ASHPALT AT SHALLOW DEPTHS. NO AS-BUILT INFORMATION AVAILABLE, CONTRACTOR SHALL USE BEST PRACTICES TO VERIFY THESE LOCATIONS PRIOR TO COLD PLANING OPERATIONS.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA · KEITH D. KARPSTEIN · CE-12904 · REGISTERED PROFESSIONAL ENGINEER · 6/23/11

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KIN-SOUTH TONGASS HIGHWAY
PAVEMENT REHABILITATION
PROJECT #69571

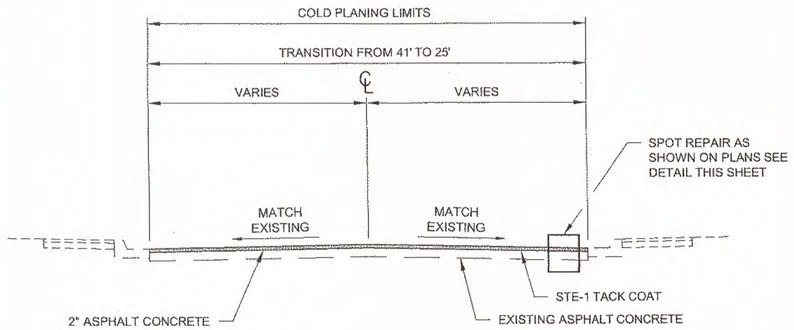
DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM

ESTIMATES OF QUANTITIES

PATH: Q:\KTN\69571\ENI\DOUG'S PLANSET\69571_C1-C2 EST.DWG
TAB: C1 Thursday, June 23, 2011 4:37:22 PM MULLINER, DOUGLAS J (DOT)

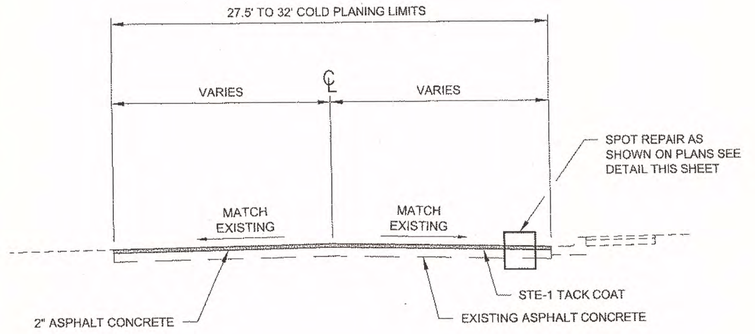
REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	C1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6-14-12



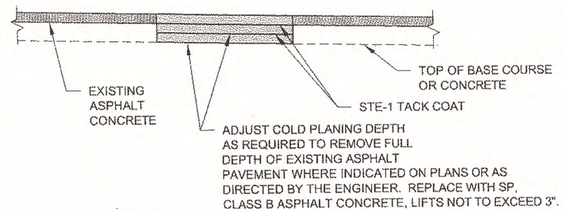
STA. 25+00 (BOP) TO STA. 28+97

COLD PLANE 2 INCHES OF EXISTING ASPHALT AND REPLACE WITH 2 INCHES OF SP, CLASS B ASPHALT CONCRETE.

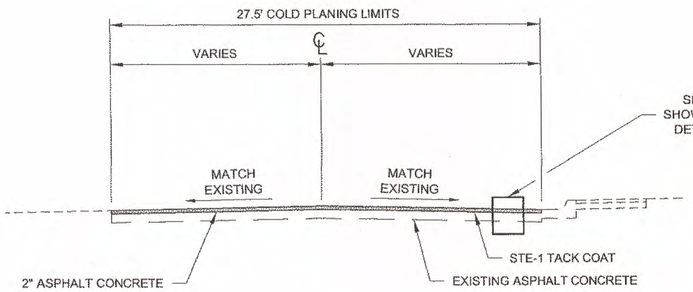


STA. 57+60 TO STA. 60+63

COLD PLANE 2 INCHES OF EXISTING ASPHALT AND REPLACE WITH 2 INCHES OF SP, CLASS B ASPHALT CONCRETE.

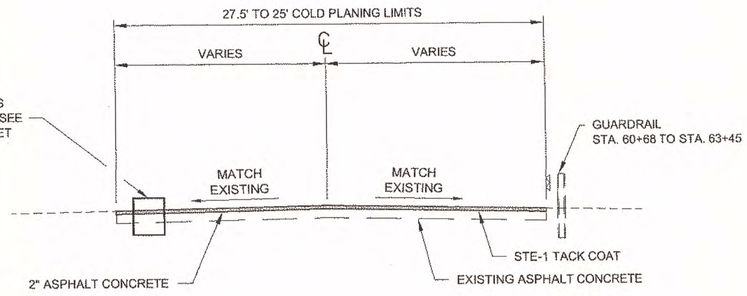


SPOT REPAIR DETAIL



STA. 28+97 TO STA. 57+60

COLD PLANE 2 INCHES OF EXISTING ASPHALT AND REPLACE WITH 2 INCHES OF SP, CLASS B ASPHALT CONCRETE.

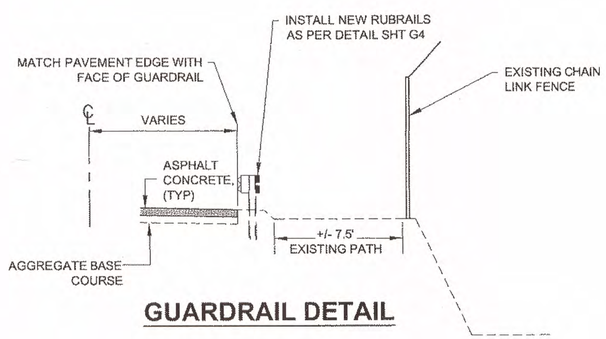


STA. 60+63 TO STA. 64+25 (EOP)

COLD PLANE 2 INCHES OF EXISTING ASPHALT AND REPLACE WITH 2 INCHES OF SP, CLASS B ASPHALT CONCRETE.

CURB & GUTTER DETAIL

RIGHT SIDE: STA. 25+00 (BOP) TO STA. 60+63
LEFT SIDE: STA. 25+00 (BOP) TO STA. 28+97



GUARDRAIL DETAIL

1. STA. 60+68 TO 63+45 GUARDRAIL SLATED FOR REMOVAL.
2. DO NOT PAVE UNDER GUARDRAIL.

NOTE:

THE SPOT REPAIR WORK AT AREAS SHOWN IN THE PLANS IS TO BE COMPLETED PRIOR TO TOP LIFT PAVING. THE LOCATIONS SHOWN ARE APPROXIMATE AND SHALL BE IDENTIFIED BY THE ENGINEER PRIOR TO BEGINNING WORK.

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KETCHIKAN PROJECT

KTN-SOUTH TONGASS HIGHWAY
PAVEMENT REHABILITATION
PROJECT #69571

STATE OF ALASKA 49th KEITH D. KARPSTEIN CE-12904 REGISTERED PROFESSIONAL ENGINEER 6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: R. GRANTHAM

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_B1 TYPS.DWG

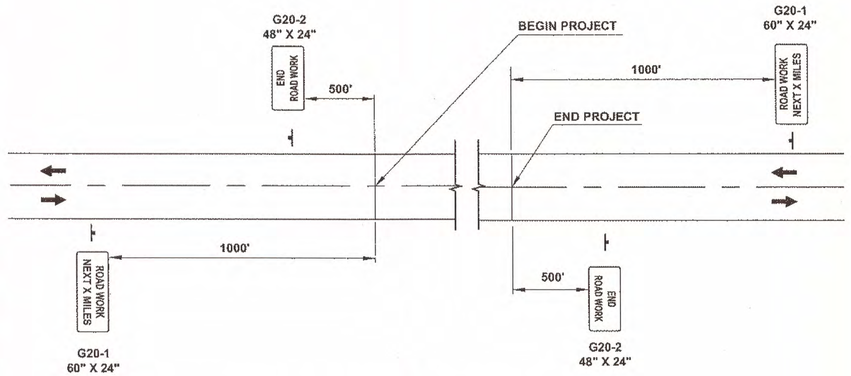
TAB: B1 Wednesday, June 22, 2011 2:49:02 PM MULLINER, DOUGLAS J (DOT)

TYPICAL SECTIONS

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	B1	27

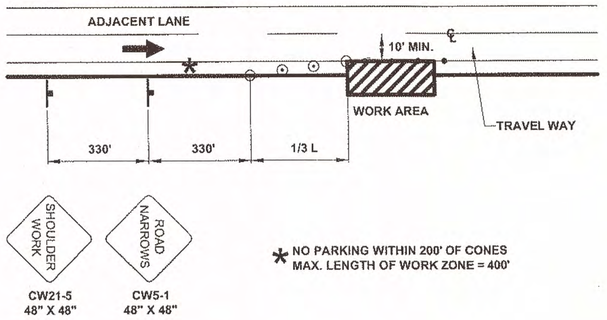
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6-4-12



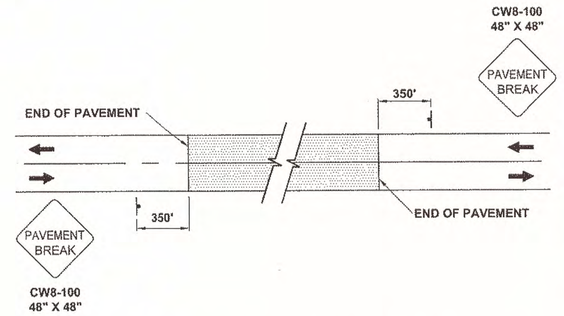
PERMANENT CONSTRUTION SIGNING

(SEE STD. DWG C-04.12 FOR DOUBLE FINE SIGNS)



SHOULDER WORK

N.T.S.

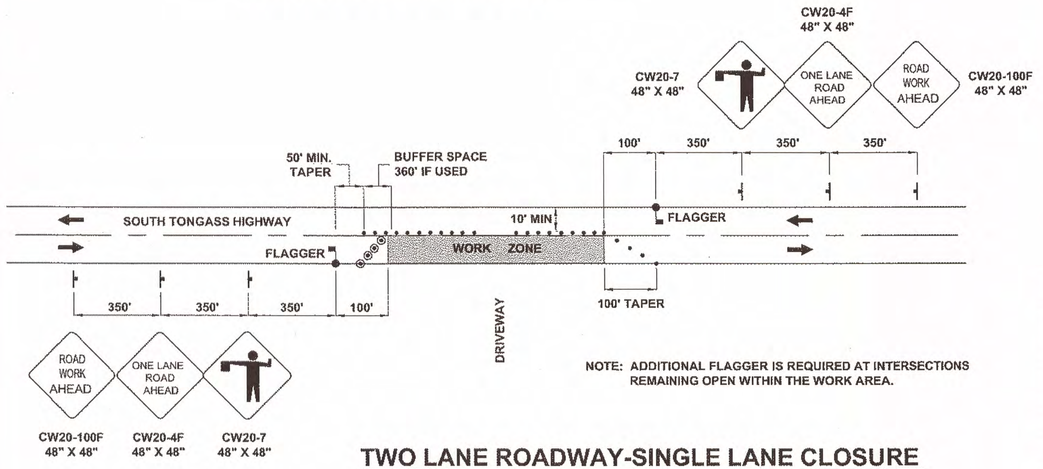


SIGNING FOR UNPAVED AREA

N.T.S.

FORMULAS FOR L (TAPER LENGTH)	
40 MPH OR LESS	$L = \frac{W \times S^2}{60}$
45 MPH OF GREATER	L= W x S

WHERE W=WIDTH OF OFFSET
S= POSTED SPEED LIMIT

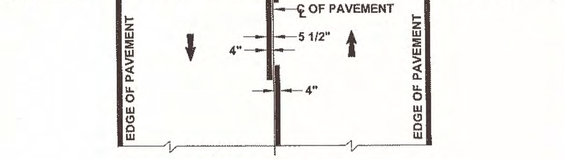


NOTE: ADDITIONAL FLAGGER IS REQUIRED AT INTERSECTIONS REMAINING OPEN WITHIN THE WORK AREA.

TWO LANE ROADWAY-SINGLE LANE CLOSURE

N.T.S.

TCP TABLE SETUP			
SPEED (MPH)	BUFFER/LENGTH (FT.)	CONE/DRUM SPACING (FT.)	TAPER LENGTH
20	115	20	7:1
25	155	25	10:1
30	200	30	15:1
35	250	35	20:1



STRIPING DETAIL

N.T.S.

STRIPING NOTE:

1. PASSING ZONES SHALL BE LOCATED IN FIELD. THE CONTRACTOR SHALL REFERENCE AND STAKE THE LOCATIONS OF PASSING ZONES PER SPECIAL PROVISION 670.
2. CONTRACTOR STRIPING SHALL BE LIMITED TO AREAS RECEIVING PAVEMENT REHABILITATION. THE CONTRACTOR IS RESPONSIBLE TO RE-STRIPE THAT IS OBLITERATED DUE TO CONSTRUCTION ACTIVITIES.

TRAFFIC CONTROL NOTES:

1. IT IS THE INTENT OF THIS TRAFFIC CONTROL PLAN (TCP) TO ILLUSTRATE SOME BUT NOT ALL OF THE TRAFFIC CONTROL CONFIGURATIONS THAT WILL BE REQUIRED BY THIS PROJECT. TRAFFIC CONTROL PLANS FOR CONFIGURATION NOT COVERED BY THIS TCP SHALL BE DEVELOPED BY THE CONTRACTOR AND SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO USE.
2. A MINIMUM OF ONE LANE SHALL BE MAINTAINED AT ALL TIMES IN WORK AREAS.
3. TWO LANES SHALL BE MAINTAINED AT ALL TIMES WITHIN THE PROJECT LIMITS IN NON-WORK AREAS AND DURING NON-WORKING HOURS.
4. DRIVING LANES SHALL BE A MINIMUM WIDTH OF 10'.
5. TRAFFIC DELAYS SHALL NOT EXCEED 5 MINUTES.
6. THE UNEVEN LANES (CW8-11) SIGN SHOULD BE USED DURING OPERATIONS THAT CREATE A DIFFERENCE IN ELEVATIONS BETWEEN ADJACENT LANES OF 2 INCHES OR GREATER.
7. FLAGGER STATIONS NEED TO BE ILLUMINATED AT NIGHT.
8. THE CONTRACTOR SHALL KEEP THE PUBLIC INFORMED OF HIS/HER CONSTRUCTION ACTIVITIES THROUGH THE USE OF THE LOCAL NEWS MEDIA. NEWS RELEASES SHALL BE APPROVED BY THE PROJECT ENGINEER PRIOR TO THEIR RELEASE. NEWS RELEASES WILL BE REQUIRED BUT NOT LIMITED TO, THE ONSET OF WORK, GRINDING, PAVING AND CHANGES IN THE LANE CONFIGURATIONS.
9. DRUM OR CONE SPACING NEEDS TO BE MAXIMUM 45' ALONG THE TAPER SECTION AND 90' ALONG THE TANGENT, USING A MINIMUM OF 11 DEVISES.
10. FOR LOCATION OF DOUBLE TRAFFIC FINE SIGNS SEE ALASKA STANDARD DRAWING C-04.12.

LEGEND

- SIGN
- CONE
- DRUM
- TYPE III BARRICADE
- FLAGGING STATION

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: D. EPSTEIN

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

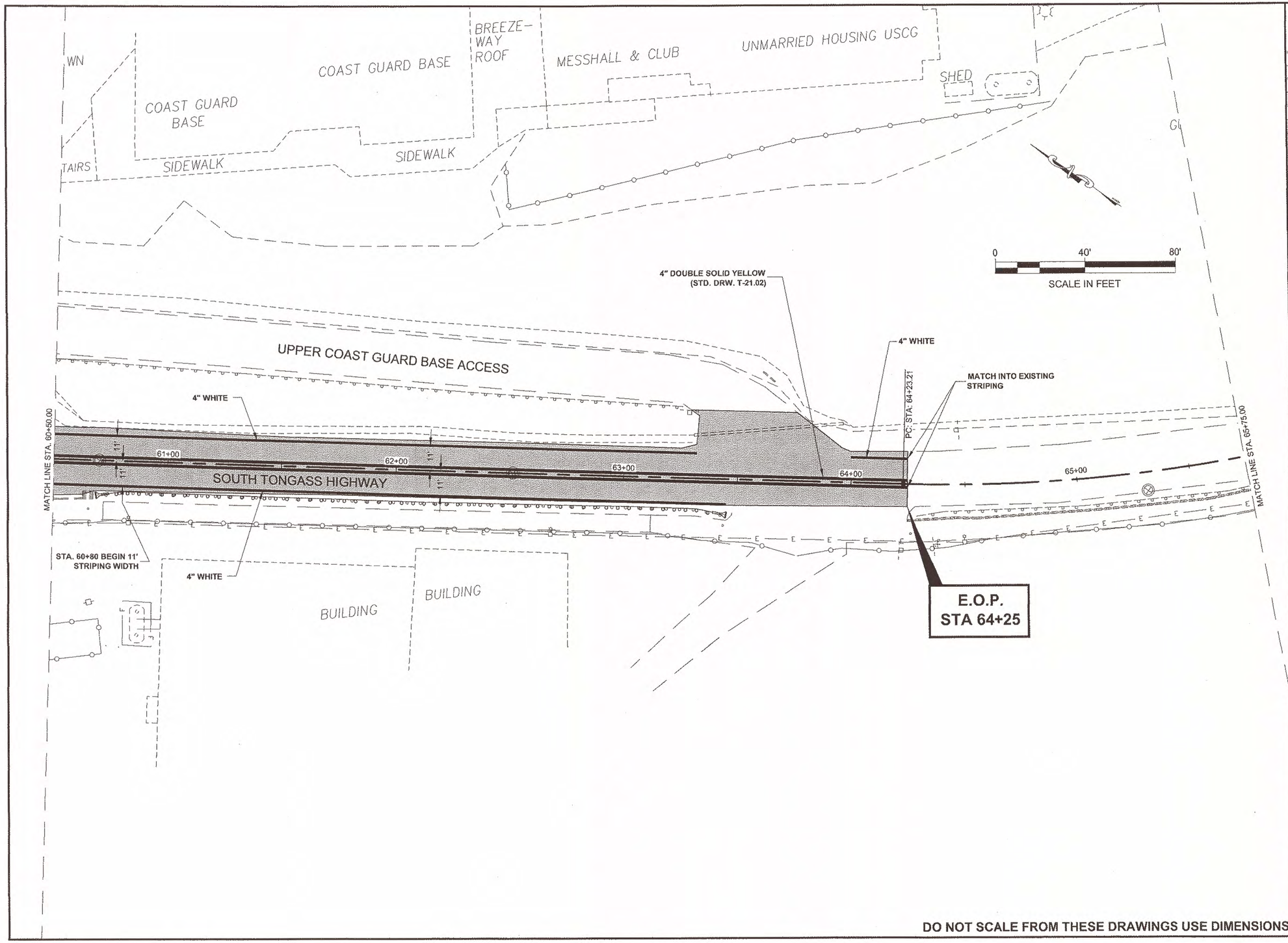
TRAFFIC CONTROL PLAN

DESIGNED BY: D. MULLINER
DRAWN BY: D. MULLINER

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_S1 TCP.DWG
TAB: S1 Wednesday, June 22, 2011 2:16:56 PM MULLINER, DOUGLAS J (DOT)

REVISIONS			PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
NO.	DATE	DESCRIPTION	NH-0902(36)~69571	2011	S1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6-M-12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\ENI\DOUG'S PLANSET\69571_R1_R8 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

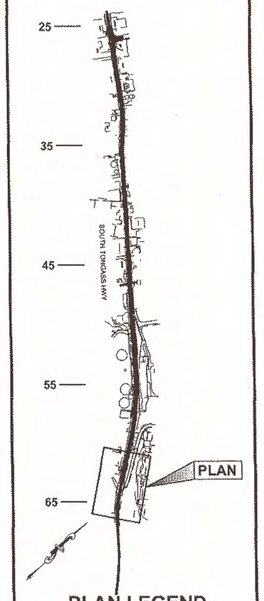
TAB: R8 Tuesday, June 21, 2011 2:06:39 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID S. EPSTEIN
CE-6866
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

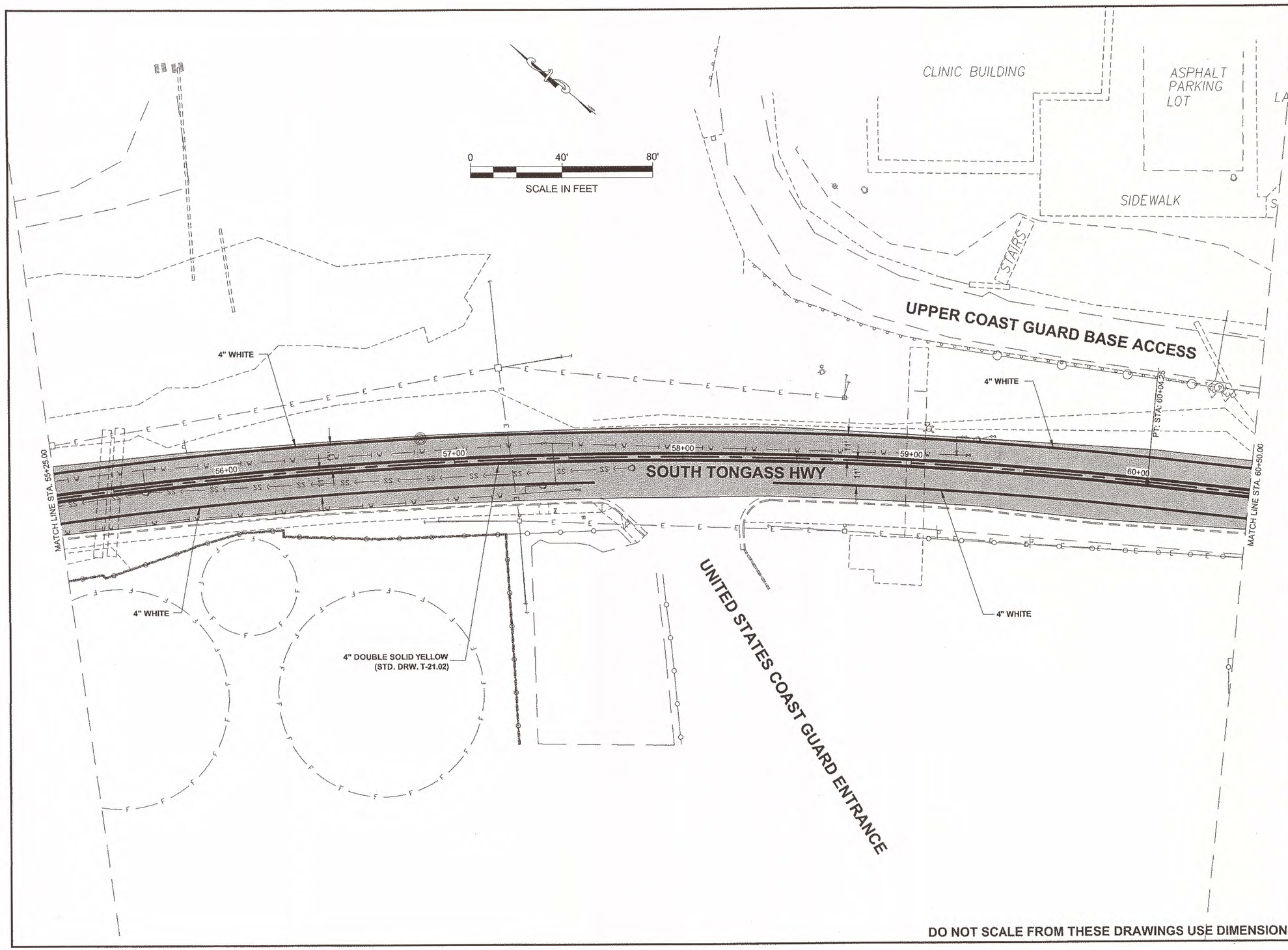
KTN-SOUTH TONGASS HWY. PAVEMENT REHABILITATION PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R8	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE JSE Date 6/14/12



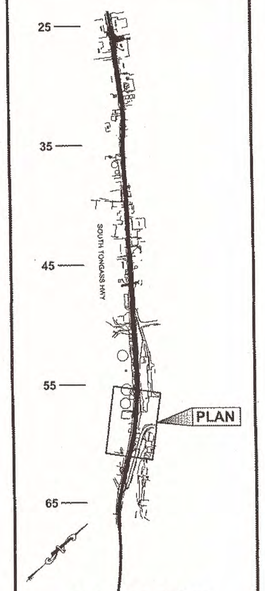
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MULLINER, DOUGLAS J (DOT)
TAB: R7 Tuesday, June 21, 2011 2:06:17 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID EPSTEIN
CE-6866
REGISTERED PROFESSIONAL ENGINEER
6-23-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

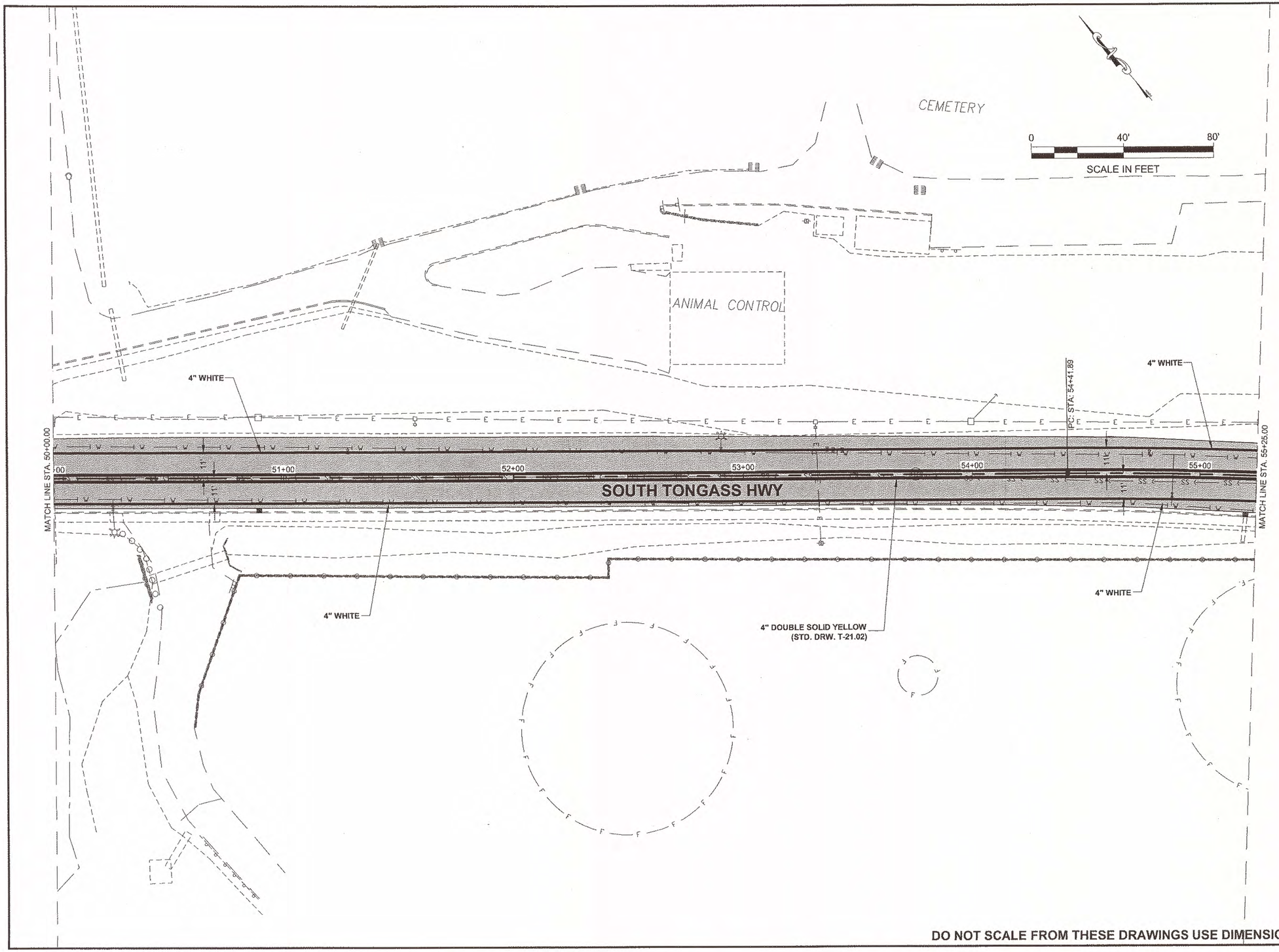
STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R7	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6-14-12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_R1_R8 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

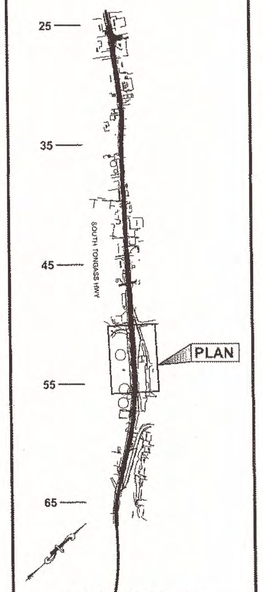
TAB: R6 Tuesday, June 21, 2011 2:05:56 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID B. EPSTEIN
CE-6866
REGISTERED PROFESSIONAL ENGINEER
6-23-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

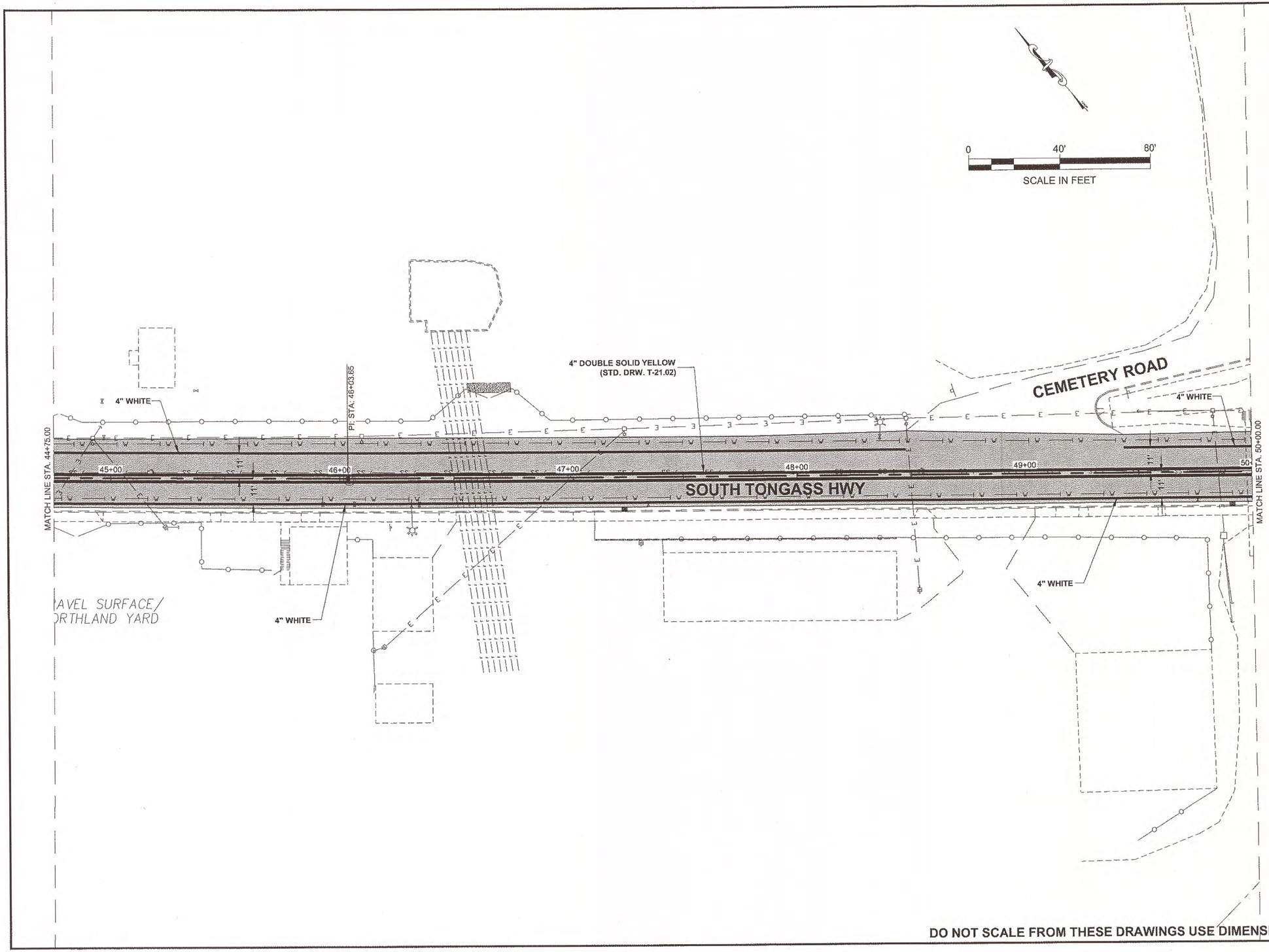
KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R6	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6/4/12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_R1_R5 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

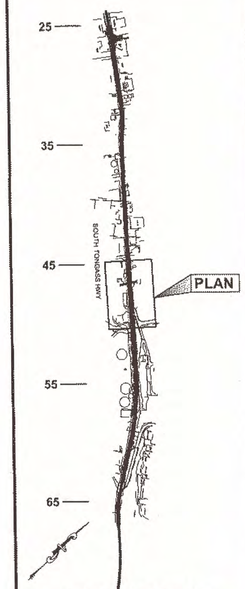
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID A. EPSTEIN
CE-6866
REGISTERED PROFESSIONAL ENGINEER
6-21-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

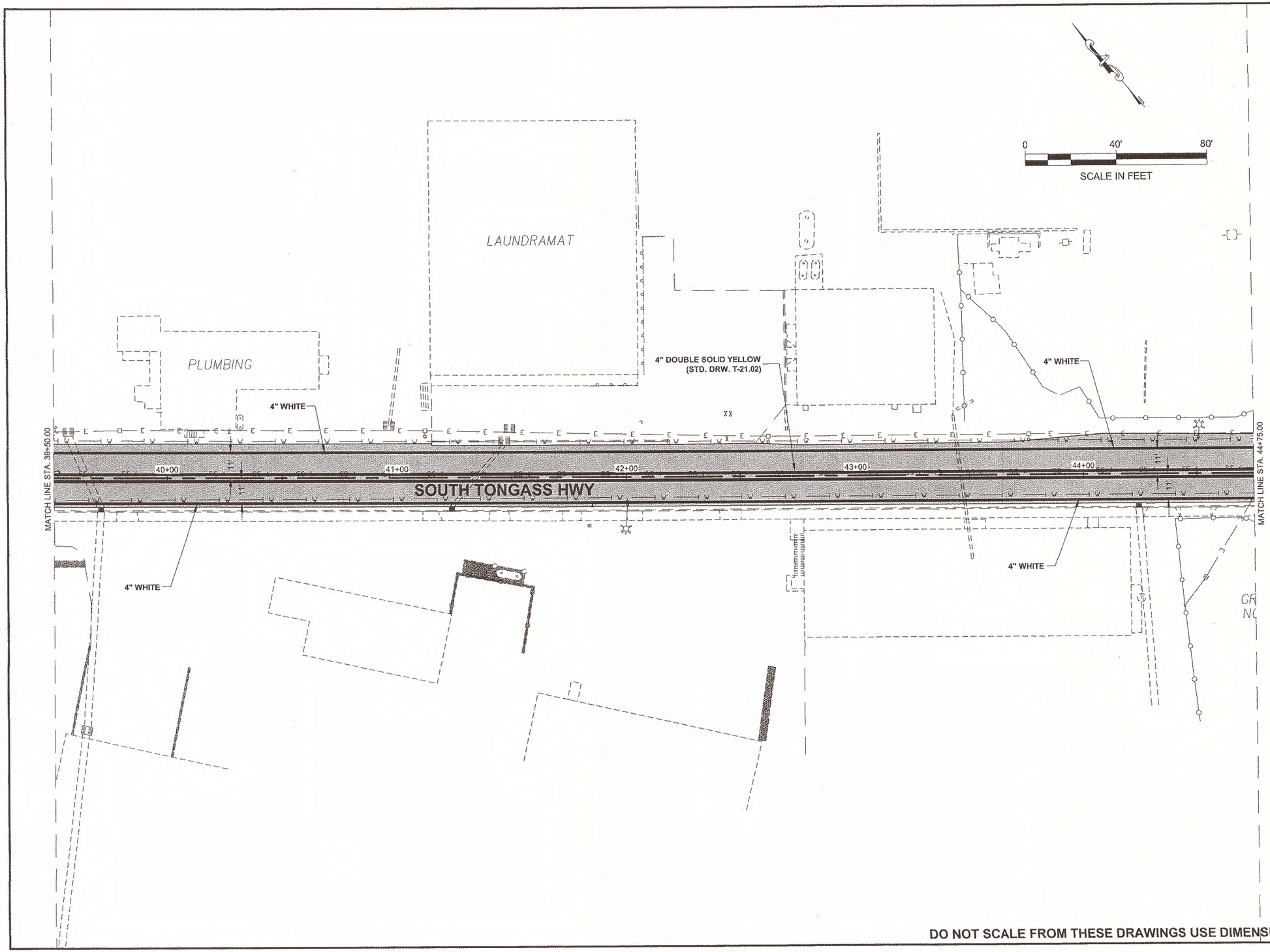
PROJECT DESIGNATION
NH-0902(36)~69571

STATE	YEAR
ALASKA	2011

SHEET NUMBER	TOTAL SHEETS
R5	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6-14-12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_R1_R8 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

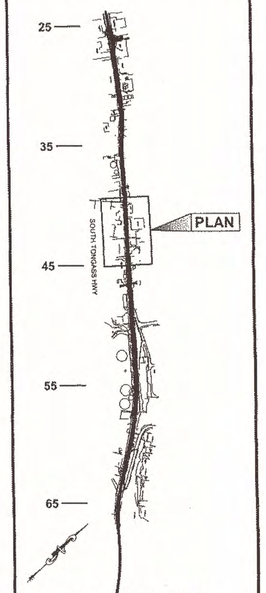
TAB: R4 Tuesday, June 21, 2011 2:05:08 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID B. EPSTEIN
CE-6666
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

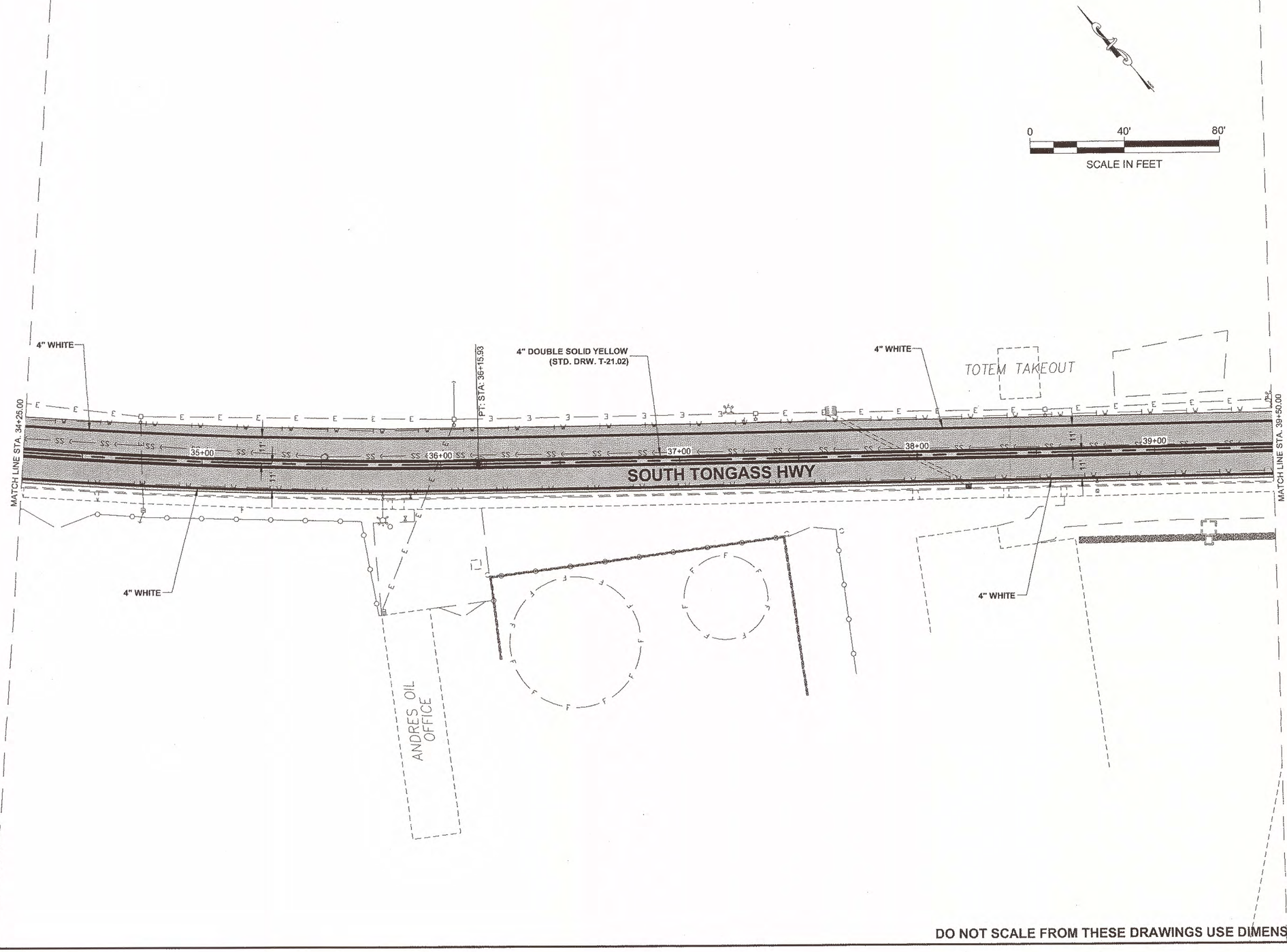
KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION
NH-0902(36)~69571

STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R4	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6/4/12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_R1_R8 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

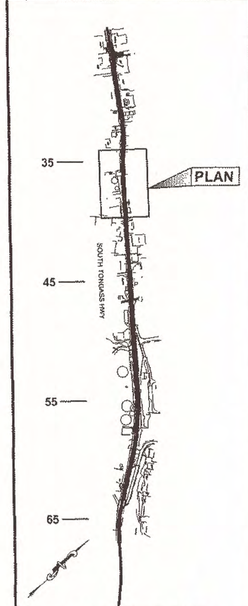
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID B. EPSTEIN
CE-6666
REGISTERED PROFESSIONAL ENGINEER

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

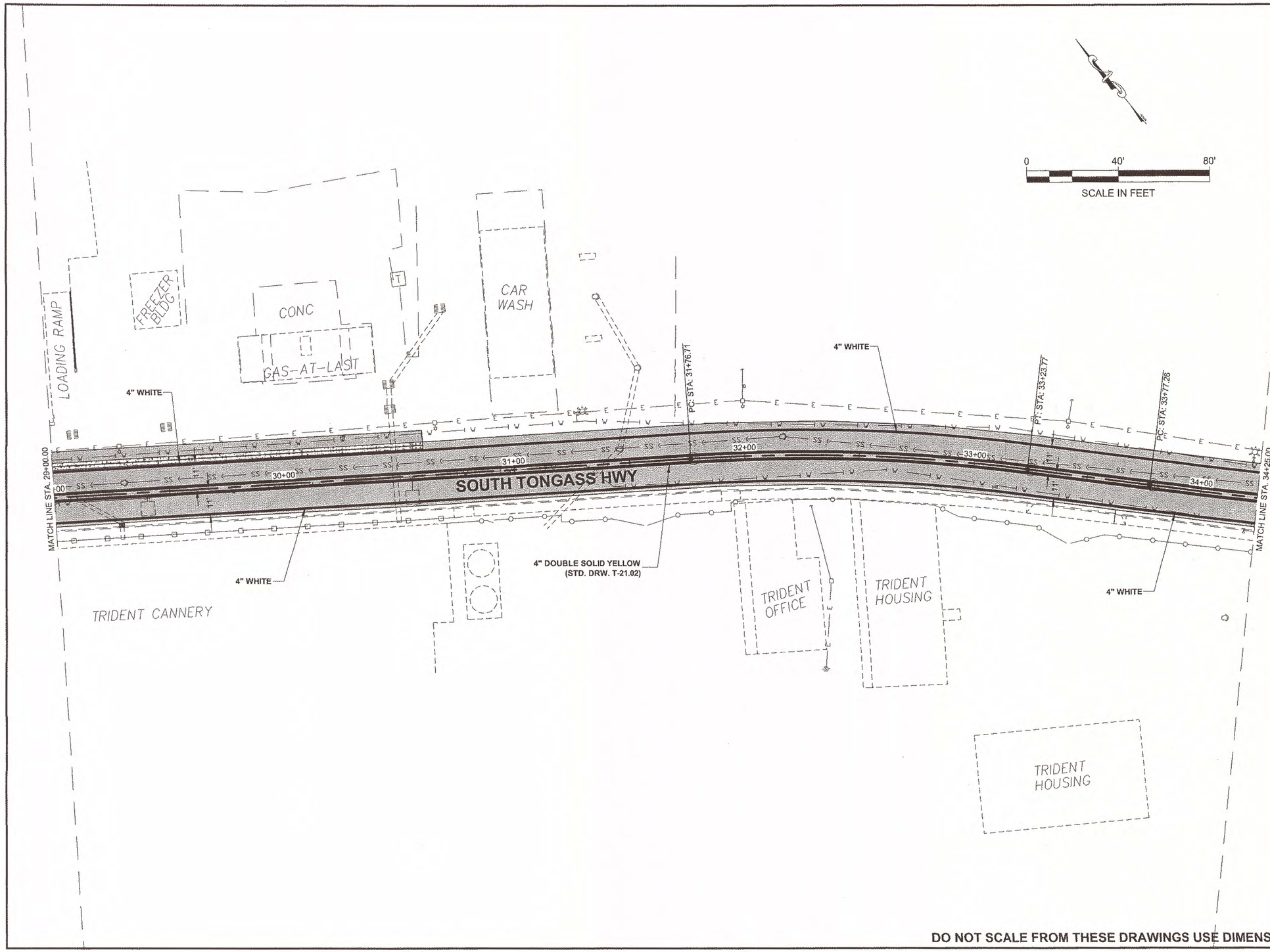
KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R3	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE _____ Date 6-4-12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

PATH: Q:\KTN\69571\EN\DOUG'S PLANSET\69571_R1_R8 STRIPING PLANS.DWG

MULLINER, DOUGLAS J (DOT)

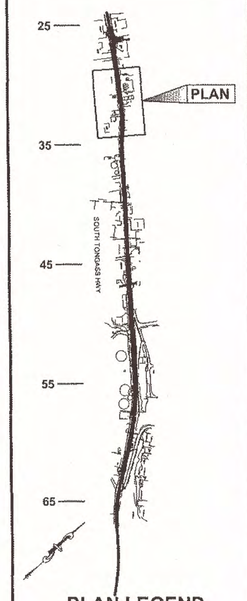
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ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA
49th
DAVID B. EPSTEIN
CE-6866
REGISTERED PROFESSIONAL ENGINEER
6-23-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

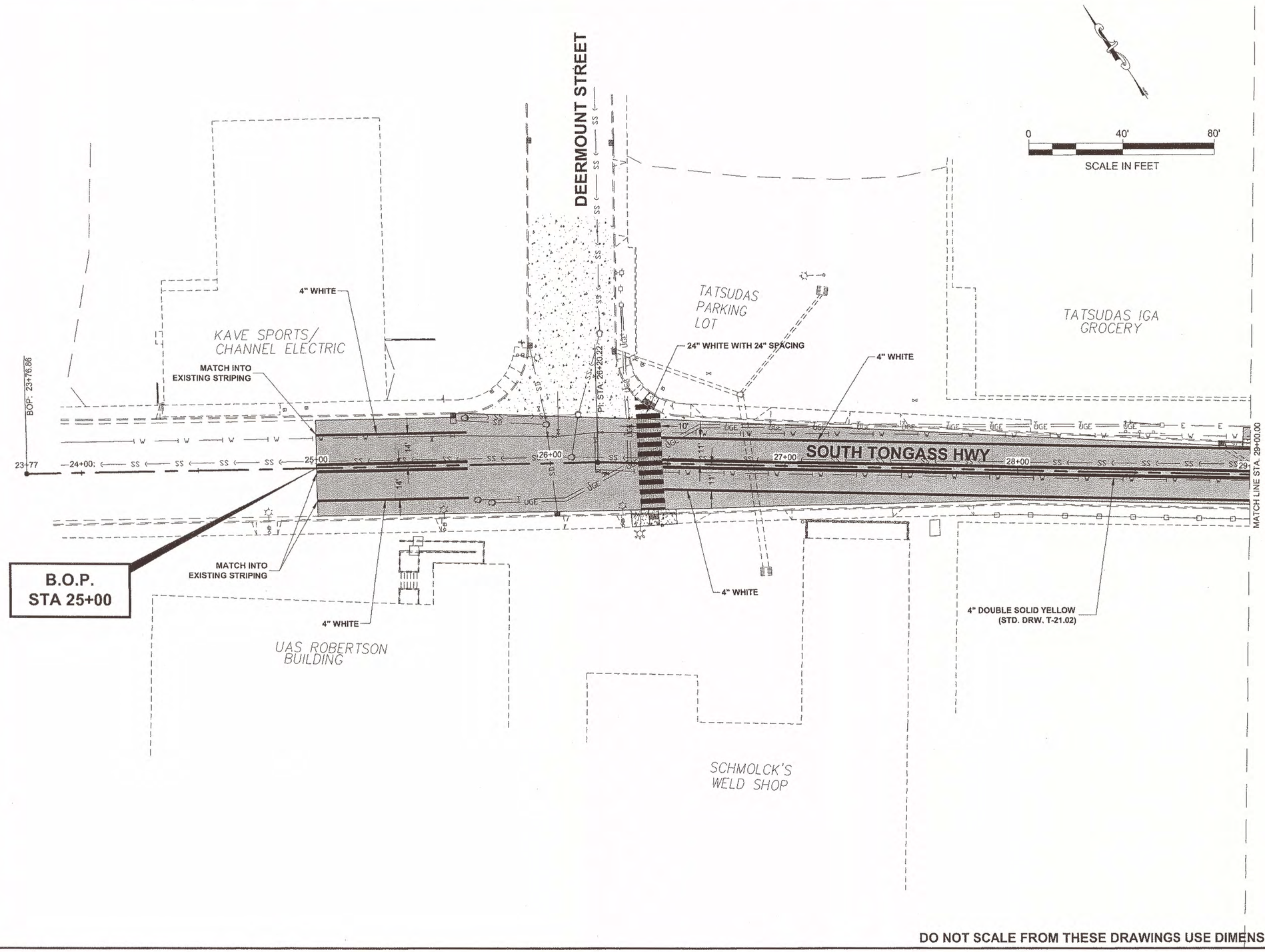
KTN-SOUTH TONGASS HWY.
PAVEMENT REHABILITATION
PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R2	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.

PE [signature] Date 6/7/12



DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

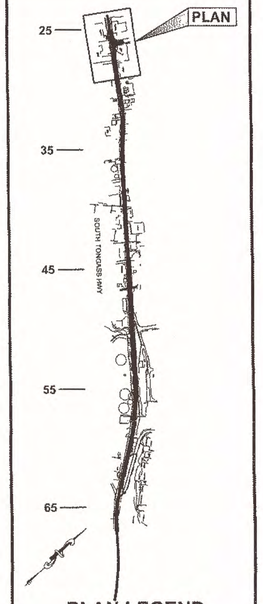
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MULLINER, DOUGLAS J (DOT)
TAB: R1 Tuesday, June 21, 2011 2:03:51 PM

ADDENDUM NUMBER

ATTACHMENT NUMBER

RECORD OF REVISIONS

No.	DATE	DESCRIPTION



PLAN LEGEND

CHECKED BY: DAVID EPSTEIN

STATE OF ALASKA 49th DAVID B. EPSTEIN CE-6866 REGISTERED PROFESSIONAL ENGINEER 6-23-11

DESIGNED BY: D. MULLINER

DRAWN BY: D. MULLINER

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION & PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY. PAVEMENT REHABILITATION PROJECT #69571

STRIPING PLAN

PROJECT DESIGNATION	
NH-0902(36)~69571	
STATE	YEAR
ALASKA	2011
SHEET NUMBER	TOTAL SHEETS
R1	27

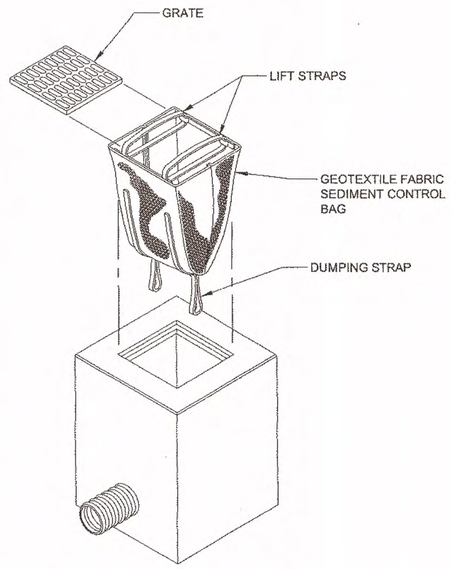
Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE: _____ Date: 6/4/12

INLET PROTECTION INSTALLATION AND MAINTENANCE

1. INSTALLATION: REMOVE THE GRATE FROM CATCH BASIN. IF USING OPTIONAL OIL ABSORBENTS; PLACE ABSORBENT PILLOW IN UNIT. STAND THE GRATE ON END. MOVE THE TOP LIFTING STRAPS OUT OF THE WAY AND PLACE THE GRATE INTO THE SEDIMENT BAG SO THAT THE GRATE IS BELOW THE TOP STRAPS AND ABOVE THE LOWER STRAPS. HOLDING THE LIFTING DEVICES, INSERT THE GRATE INTO THE INLET.
2. MAINTENANCE: REMOVE ALL ACCUMULATED SEDIMENT AND DEBRIS FROM VICINITY OF UNIT AFTER EACH STORM EVENT. AFTER EACH STORM EVENT AND AT REGULAR INTERVALS, LOOK INTO THE SEDIMENT BAG. IF THE CONTAINMENT AREA IS MORE THAN 1/3 FULL OF SEDIMENT, THE UNIT MUST BE EMPTIED. TO EMPTY UNIT, LIFT THE UNIT OUT OF THE INLET USING THE LIFTING STRAPS AND REMOVE THE GRATE. IF USING OPTIONAL OIL ABSORBENTS; REPLACE ABSORBENT WHEN NEAR SATURATION.
3. INSTALL INLET PROTECTION AT ALL INLET LOCATIONS BEFORE EARTH DISTURBING ACTIVITIES AND COLD PLANING.

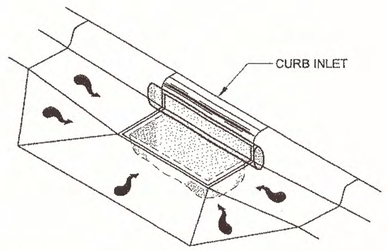
EROSION & SEDIMENT CONTROL NOTES:

1. REFER TO APPENDIX A OF THE CONTRACT DOCUMENTS FOR THE ENVIRONMENTAL COMMITMENTS.
2. THE LOCATIONS OF TEMPORARY EROSION & SEDIMENT POLLUTION CONTROLS ARE RECOMMENDATIONS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PREPARE AND IMPLEMENT A SWPPP ACCORDING TO SECTION 641 OF THE SPECS.
3. INSTALL EROSION AND SEDIMENT CONTROL DEVICES BEFORE BEGINNING COLD PLANING OR AS SPECIFIED ELSEWHERE. INSTALL AT ALL INLET LOCATIONS.
4. MAINTAIN DEVICES. MONITOR DAILY. REMOVE SEDIMENT FROM SEDIMENT TRAPS WHEN 4" OF SEDIMENT HAS ACCUMULATED.



INLET PROTECTION DETAIL

N.T.S.



CURB INLET PROTECTION DETAIL

N.T.S.

NOTE:

USE DANDY BAG OR APPROVED EQUAL.
INSTALL INLET PROTECTION PRIOR TO BEGINNING WORK ACTIVITY.

CURB INLET PROTECTION		
STATION	OFFSET	REMARKS
25+58	LT	CB
26+02	RT	CB
28+87	LT	CB
29+09	27' LT	FIELD GRATE
29+28	RT	CB
29+50	28' LT	FIELD GRATE
30+47	30' LT	FIELD GRATE
30+47	41' LT	FIELD GRATE
38+21	RT	CB
39+55	20' LT	FIELD GRATE
39+71	RT	CB
40+96	23' LT	FIELD GRATE
41+24	RT	CB
41+47	16' LT	FIELD GRATE
41+49	22' LT	FIELD GRATE
44+24	RT	CB
47+24	RT	CB
49+91	RT	CB
49+98	24' LT	FIELD GRATE
50+89	RT	CB
55+20	RT	CB
60+65	15' RT	FIELD GRATE

DO NOT SCALE FROM THESE DRAWINGS USE DIMENSIONS

CHECKED BY: K. KARPSTEIN

STATE OF ALASKA
KEITH D. KARPSTEIN
CE-12904
REGISTERED PROFESSIONAL ENGINEER
6/23/11

DESIGNED BY: D. MULLINER
DRAWN BY: R. GRANTHAM

STATE OF ALASKA
DEPARTMENT OF TRANSPORTATION
& PUBLIC FACILITIES
SOUTHEAST REGION

KTN-SOUTH TONGASS HWY
PAVEMENT REHABILITATION
PROJECT #69571

EROSION & SEDIMENT CONTROL DETAILS

PATH: Q:\KTN\69571\ENI\DOUG'S PLANSET\69571_H1 DTLS.DWG
TAB: H1 Tuesday, June 21, 2011 2:02:05 PM MULLINER, DOUGLAS J (DOT)

REVISIONS NO.	DATE	DESCRIPTION	PROJECT DESIGNATION	YEAR	SHEET NO.	TOTAL SHEETS
			NH-0902(36)~69571	2011	H1	27

Project As-Built Drawings have been reviewed by the Project Engineer and represent to the best of my knowledge, the project as constructed.
PE _____ Date 6-14-12